INDEX OF AUTHORS, 1933.

A.

Adair, *A.* See **Chattaway,** *F. D.*

Adam, *N. K.*, evidence from surface films on the constitution of batyl and chimyl alcohols, 164.

Adams, *A. P.*, obituary notice of, 1645.

Anderson, *A. R.*, and **Short,** *W. F.*, the preparation of chloromethylnaphthalenes and 1:5-dimethylnaphthalene, 485.

Armstrong, *D. E.*, and **Richardson,** *D. H.*, the Reimer–Tiemann reaction, 496.

Ashmore, *J. E.*, and **Wheeler,** *R. V.*, studies in the composition of coal; the action of solvents, 1405.

Ashworth, *D. R.* See **Chattaway,** *F. D.*

Astin, *S.*, **Newman,** *A. C. C.*, and **Riley,** *H. L.*, selenium dioxide, a new oxidising agent. Part III. Its reaction with some alcohols and esters, 391.

Astin, *S.*, and **Riley,** *H. L.*, the determination of copper by the salicylaldoxime method, 314.

Ault, *R. G.*, **Baird,** *D. K.*, **Carrington,** *H. C.*, **Haworth,** *W. N.*, **Herbert,** *R. W.*, **Hirst,** *E. L.*, **Percival,** *E. G. V.*, **Smith,** *F.*, and **Stacey,** *M.*, synthesis of *d*- and of *l*-ascorbic acid and of analogous substances, 1419.

B.

Backeberg, *O. G.*, the condensation of anthranilic acid with 4-chloroquinaldine and with 2-chlorolepidine, 390.

the action of phosphoryl chloride on the toluene-*p*-sulphonyl derivative of β-anilinopropionic acid, 618.

2-anilinolepidine derivatives, 1031.

Baddeley, *G.*, and **Bennett,** *G. M.*, monothioethylene glycol. Part IV. Aryl β-hydroxy- and β-chloroethyl sulphides, 46.

the influence of the sulphur atom on the reactivity of adjacent atoms or groups. Part VI. Aromatic side-chain and nuclear reactivity, 261.

Bailey, *R. W.*, **Brewer,** *F. M.*, and **Powell,** *H. M.*, beryllium benzoylacetonate, 1546.

Baird, *D. K.* See **Ault,** *R. G.*

Bairstow, *S.*, and **Hinshelwood,** *C. N.*, the homogeneous catalysis of gaseous reactions; the influence of iodine on the decomposition of acids, esters, ketones, and halides; the influence of iodine on the decomposition of simple aliphatic amines and of hexane, 1147, 1155.

Baker, *J. W.*, the preparation of ethyl β-iodopropionate, 216.

synthesis of substances analogous to bile acid degradation products. Part II. Synthesis of some straight-chain polycarboxylic esters, 811.

anomalies in the reactivities of side-chain halogens with special reference to reaction mechanism, 1128.

Baker, *J. W.*, and **Burton,** *H.*, synthesis of substances analogous to bile acid degradation products. Part III. The attempted use of diallyl as an agent to introduce the requisite side chain in the synthesis of the acid $C_{13}H_{20}O_6$, 815.

Baker, *W.*, molecular rearrangement of some *o*-acyloxyacetophenones and the mechanism of the production of 3-acylchromones, 1381.

Baker, *W.*, **Morgans,** *W. M.*, and **Robinson,** *R.*, synthetical experiments in the *iso*flavone group. Part VIII. Limitations of the phenacyl aryl ether cyanohydrin method, 374.

Baker, *W.*, **Robinson,** *R.*, and **Simpson,** *N. M.*, synthetical experiments in the *iso*flavone group. Part VII. Synthesis of daidzein, 274.

Baker, *W.*, and **Shannon,** *A.*, 2:3-dichlorodioxan, 1598.

Balfe, *M. P.*, and **Phillips,** *H.*, phenylmethylselenetine mercuri-iodide, 127.

Ball, *W. C.*, obituary notice of, 1645.

Barger, *G.*, and **Scholz,** *C.*, yohimbine (quebrachine). Part IV. Harman, a degradation product, 614.

Barnett, *E. de B.*, and **Cook,** *J. W.*, a new synthesis of cadalene, 22.

Barnett, *E. de B.*, and **Sanders,** *F. G.*, the synthesis of some homologous naphthalenes, 434.

Barnett, (*Miss*) *M. M.* See **Rule,** *H. G.*

Barratt, *S.* See **Pedder,** *J. S.*

Barton, *G. W.* See **Bassett,** *H.*

Bassett, *H.*, **Barton,** *G. W.*, **Foster,** *A. R.*, and **Pateman,** *C. R. J.*, the ternary systems constituted by mercuric chloride, water, and an alkaline-earth chloride or cupric chloride, 151.

Bassett, *H.*, and **Bedwell,** *W. L.*, studies of phosphates. Part I. Ammonium magnesium phosphate and related compounds. Part II. Orthophosphates of the type $M_3(PO_4)_2,xH_2O$. Part III. Some complex orthophosphates of sodium and a bivalent metal and some orthophosphate solid solutions, 854, 871, 877.

Bassett, *H.*, and **Lemon,** *J. T.*, the system $Na_2S_2O_3$–$Ag_2S_2O_3$–H_2O at 25°, 1423.

Battrick, *W. E.* See **Britton,** *H. T. S.*

Bawn, *C. E. H.*, the oxidation of carbonyl sulphide, 145.

Bedwell, *W. L.* See **Bassett,** *H.*

Bell, *F.*, the nitration of α- and β-naphthols, 286.

Bell, *F.*, and **Cohen,** *R.*, the nitration of disulphonanilides, 1290.

Bell, *F.*, and **Sugden,** *S.*, the formula of hypophosphoric acid, 48.

Bennett, *G. M.*, the influence of nuclear halogens on aromatic side-chain reactivity, 1112.

Bennett, *G. M.* See also **Baddeley,** *G.*

Bentley, *J. B.* See **Sutton,** *L. E.*

Bhalla, *A. L.*, and **Rây,** *J. N.*, experiments on the synthesis of cyanomaclurin and its derivatives. Part I. 3:5:7:2′:4′-Pentamethoxyflavan, 288.

Bhatt, *C. T.* See **Shah,** *M. S.*

Blackwood, (*Miss*) *J. H.* See **Patterson,** *T. S.*

Blandon, *E. E.* See **Thompson,** *H. W.*

Bloomfield, *G. F.*, **Farmer,** *E. H.*, and **Hose,** *C. G. B.*, reactions of olefinic compounds. Part II. The orienting influence of the carboxyl group, 800.

Blount, *B. K.*, aromatic tropane derivatives. Part I. Derivatives of 8:9-benz-$\Delta^{8:9}$-homogranatene, 533.

the colouring matter on the stems of the tomato, 1528.

Blount, *B. K.*, and **Robinson,** *R.*, *iso*benzpyrylium ferrichloride, 555.
derivatives of *l*-methyltropane, 1511.
Bolam, *T. R.*, and **Muir,** *J. J.*, ionic interchange in sulphur sols. Part II. The influence of acids, 1022.
Bone, *W. A.*, the combustion of hydrocarbons, 1599.
Boorman, *E. J.*, and **Linstead,** *R. P.*, investigations of the olefinic acids. Part X. The formation of lactones from Δ^{α}- and Δ^{β}-*n*-butenoic and -pentenoic acids, 577.
Boorman, *E. J.*, **Linstead,** *R. P.*, and **Rydon,** *H. N.*, investigations of the olefinic acids. Part IX. The addition of hydrogen bromide to unsaturated acids, 568.
Boorman, *E. J.* See also **Linstead,** *R. P.*
Bradford, *B. W.*, the water-gas reaction in low-pressure explosions, 1557.
Bradford, *B. W.*, **Finch,** *G. I.*, and **Prior,** (*Miss*) *A. M.*, the coil ignition of some explosive gaseous mixtures, 227.
Bradley, *G.*, and **Marsh,** *J. K.*, the system anthracene–phenanthrene, 650.
Brady, *O. L.*, and **Grayson,** *H. J.*, the isomerism of the oximes. Part XXXVIII. The constitution of the acetyl derivatives of α- and β-aldoximes, 1037.
Brady, *O. L.*, and **Hughes,** *E. D.*, co-ordination compounds of 2:2′-diphenol, 1227.
Brady, *O. L.*, and **Porter,** (*Miss*) *M. D.*, the co-ordination compounds of oximes. Part III. Compounds of 4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone with the alkali metals, nickel, and thallium, 840.
Brewer, *F. M.* See **Bailey,** *R. W.*
Britton, *H. T. S.*, and **Battrick,** *W. E.*, physicochemical studies of complex formation involving weak acids. Part VI. Alkaline solutions of thorium, 5.
Britton, *H. T. S.*, and **Dodd,** *E. N.*, electrometric studies of the precipitation of hydroxides. Part XII. The reaction of sodium hydroxide on platinic chloride in solution, and a note on the reaction of potassium cyanide on platinic chloride, 1429.
physicochemical studies of complex formation involving weak acids. Part VII. Hydroferrocyanic acid and the precipitation of ferrocyanides of silver, lead, copper, zinc, cadmium, cobalt, nickel, and manganese, 1543.
Britton, *H. T. S.*, and **Robinson,** *R. A.*, physicochemical studies of complex acids. Part IX. Tantalic acid; reactions of alkali niobate and tantalate solutions with organic acids. Part X. The precipitation of metallic vanadates, with a note on Moser and Brandl's method of estimating vanadium, 419, 512.
Britton, *H. T. S.*, and **Wilson,** (*Miss*) *B. M.*, electrometric studies of the precipitation of hydroxides. Part VIII. Standardisation of acid solutions by means of mercuric oxide. Part IX. The action of ammonia on solutions of mercuric chloride. Part X. The action of ammonia on solutions of potassium mercuri-iodide, and mercuric bromide, nitrate, sulphate, and perchlorate. Part XI. The constitution of ammoniacal solutions of (*a*) silver nitrate, (*b*) silver oxide, 9, 601, 1045, 1050.
Broadway, *L. F.*, and **Fraser,** *R. G. J.*, the vapour pressure of *trans*-di-iodoethylene, 429.
Brown, *W. R.*, and **Mason,** *F. A.*, the blue sodium salt of rhodamine-B and some related substances, 1264.
the preparation of 4:4′-bisdiethylamino-2:2′-dimethoxytriphenylcarbinol, 1269.
Buck, *J. S.*, the so-called 1:2-dihydropapaverine, 740.
Burkhardt, *G. N.*, the action of chlorosulphonic acid on phenol and *p*-cresol at low temperatures, 337.
Burton, *H.*, **Shoppee,** *C. W.*, and **Wilson,** *C. L.*, anionotropic and prototropic changes in cyclic systems. Part I. Hydroxy*cyclo*pentenones, 720.
Burton, *H.* See also **Baker,** *J. W.*
Bury, *C. R.*, and **Davies,** *E. R. H.*, the system magnesium chloride–lime–water, 701.
Bury, *C. R.*, and **Redd,** *R.*, the system sodium carbonate–calcium carbonate–water, 1160.
Butler, *J. A. V.*, **Thomson,** *D. W.*, and **Maclennan,** *W. H.*, the free energy of the normal aliphatic alcohols in aqueous solution. Part I. The partial vapour pressures of aqueous solutions of methyl, *n*-propyl, and *n*-butyl alcohols. Part II. The solubilities of some normal aliphatic alcohols in water. Part III. The theory of binary solutions, and its application to aqueous-alcoholic solutions, 674.
Butler, *J. A. V.* See also **Vosburgh,** *W. C.*

C.

Cahn, *R. S.*, metathebainone, 1038.
Cannabis indica resin. Part IV. The synthesis of some 2:2-dimethyldibenzopyrans, and confirmation of the structure of cannabinol, 1400.
Cahn, *R. S.*, **Jones,** *W. O.*, and **Simonsen,** *J. L.*, the constitution of the chlorination products of benzanthrone, 444.
Cairns, *A. C. H.* See **Thompson,** *H. W.*
Callow, *R. K.*, and **Rosenheim,** *O.*, the action of selenium dioxide on sterols and bile acids. Part I. Ergosterol and dihydroergosterol, 387.
Campbell, *C.*, **Whitworth,** *C.*, and **Woodhead,** *D. W.*, the rates of detonation in carbon monoxide–oxygen mixtures, 59.
Canter, *F. W.*, **Robertson,** *A.*, and **Waters,** *R. B.*, lichen acids. Part V. A synthesis of methyl *O*-tetramethylgyrophorate, 493.
Carey, (*Miss*) *P. C.*, and **Smith,** *J. C.*, higher aliphatic compounds. Part III. The preparation of paraffins. Part IV. Systems with ethyl margarate and heptadecyl alcohol. Part V. Systems with heptadecyl alcohol and heptadecane; polymorphism of octadecane, 346, 635, 1348.
Carrington, *H. C.* See **Ault,** *R. G.*
Caughley, *F. G.*, and **Robertson,** *P. W.*, the system allyl alcohol–iodine–di-iodopropyl alcohol, 1323.
Caven, *R. M.*, and **Gardner,** *W. K.*, equilibria in the systems $(NH_4)_2SO_4$–$NiSO_4$–H_2O, $(NH_4)_2SO_4$–$CoSO_4$–H_2O, $(NH_4)_2SO_4$–$ZnSO_4$–H_2O, Na_2SO_4–$NiSO_4$–H_2O, and Na_2SO_4–$CoSO_4$–H_2O, at 25°, 943.
Cawood, *W.*, and **Patterson,** *H. S.*, the compressibilities of certain gases at low pressures and various temperatures, 619.
Chadha, *T. C.*, **Mahal,** *H. S.*, and **Venkataraman,** *K.*, synthetical experiments in the chromone group. Part X. Coumarin and chromone formation, 1459.
Chadha, *T. C.*, and **Venkataraman,** *K.*, synthetical experiments in the chromone group. Part VIII. Derivatives of *o*-hydroxy-, 2:5-dihydroxy-, and 2:4:5-trihydroxy-acetophenone, 1073.
Challenger, *F.*, **Higginbottom,** (*Miss*) *C.*, and **Ellis,** *L.*, the formation of organo-metalloidal compounds by micro-organisms. Part I. Trimethylarsine and dimethylethylarsine, 95.
Chandrasena, *J. P. C.*, isolation of crystalline atisine, 740.
Chapman, *A. W.*, and **Howis,** *C. C.*, studies of the Beckmann change. Part I. The spontaneous rearrangement of oxime picryl ethers, 806.

Chapman, *D. L.*, and **Watkins,** *J. S.*, the photochemical union of chlorine and hydrogen in the presence of oxygen, and the relative rates of formation of water and hydrogen chloride in illuminated mixtures of the three gases rich in oxygen, 743.

Charlesworth, *E. H.*, **Chavan,** *J. J.*, and **Robinson,** *R.*, a synthesis of pyrylium salts of anthocyanidin type. Part XX. Morinidin chloride; cyanomaclurin, 370.

Charlesworth, *E. H.*, and **Robinson,** *R.*, anthoxanthins. Part XIII. Synthesis of a colouring matter of *Robinia pseudacacia*, 268.

Chattaway, *F. D.*, and **Adair,** *A.*, the interactions of chloro-substituted aldehydes with chloro-substituted arylhydrazines, 1488.

Chattaway, *F. D.*, and **Ashworth,** *D. R.*, the action of bromine upon nitrophenylazoacetoacetates and related compounds, 475.

the action of chlorine upon the nitrophenylazoacetoacetates, 1143.

the action of chlorine upon the 3-carbethoxy-4-hydroxy-1-nitrophenylpyrazoles, 1389.

the action of halogens upon the nitrophenylazobenzoylacetones, 1624.

Chattaway, *F. D.*, and **Goepp,** *R. M.*, the condensation of formaldehyde with *p*-nitrophenol, 699.

Chattaway, *F. D.*, and **Irving,** *H.*, 2:4:6-trichloroaniline, 142.

Chattaway, *F. D.*, **Irving,** *H.*, and **Outhwaite,** *G. H.*, the *aaβ*-trihalogenated butaldehydes, 993.

Chattaway, *F. D.*, **Kerr,** *G. M. T.*, and **Lawrence,** *C. G.*, the condensation of chloral with tolyl- and nitrophenyl-ureas, 30.

Chattaway, *F. D.*, and **Lye,** *R. J.*, the action of bromine upon arylazobenzoylacetones, 480.

Chavan, *J. J.*, and **Robinson,** *R.*, anthoxanthins. Part XIV. ω-Hydroxyphloracetophenone and certain derivatives; synthesis of galangin, 368.

Chavan, *J. J.* See also **Robinson,** *R.*

Chesterman, *D. R.*, some new co-ordination compounds of chromic chloride, 796.

Clark, *D. N.*, **Gatty,** *O.*, **Hughes,** *O. L.*, and **Hartley,** (*Sir*) *H.*, the effect of acetaldehyde on the conductivities of electrolytes in ethyl alcohol, 658.

Clark, *L. M.*, the absorption spectra of 2:2′-dimethyl- and 2:2′-diethyl-selenocarbocyanine iodides and of *p*-dimethylaminostyrylbenzthiazole methiodide, 216.

Clay, *H.* See **Hodgson,** *H. H.*

Clemo, *G. R.*, and **Ormston,** *J.*, structural changes produced in the selenium dehydrogenation method. Part I. Ring changes in *spiro*-compounds, 352.

the Reformatsky reaction with compounds of the ethylene oxide type, 362.

Clemo, *G. R.*, and **Raper,** *R.*, the lupin alkaloids. Part VII. The structure of lupanine and sparteine, 644.

Cliffe, *W. H.*, the constitution of the supposed aliphatic keto-anils, 1327.

Cohen, *A.*, alkaloidal cuprichlorides; the specific precipitation by cupric chloride of cinchona alkaloids containing the vinyl group, 996.

Cohen, *R.* See **Bell,** *F.*

Collin, *G.*, and **Hilditch,** *T. P.*, the isomeric 9:10-dihydroxyoctadecyl alcohols produced by oxidation of *cis*- and *trans*-$\Delta^{9:10}$-octadecenyl (oleyl and elaidyl) alcohols, 246.

Connell, (*Miss*) *L. C.* See **Vosburgh,** *W. C.*

Cook, *J. W.*, polycyclic aromatic hydrocarbons. Part XII. The orientation of derivatives of 1:2-benzanthracene, with notes on the preparation of some new homologues, and on the isolation of 3:4:5:6-dibenzphenanthrene, 1592.

Cook, *J. W.*, and **Hewett,** *C. L.*, the synthesis of compounds related to the sterols, bile acids, and oestrus-producing hormones. Part I. 1:2-*cyclo*-Pentenophenanthrene, 1098.

polycyclic aromatic hydrocarbons. Part XI. The acetylation of 1:2-benzanthracene, 1408.

Cook, *J. W.*, **Hewett,** *C. L.*, and **Hieger,** *I.*, the isolation of a cancer-producing hydrocarbon from coal tar. Parts I., II., and III., 395.

Cook, *J. W.*, and **Lawson,** *W.*, the Reformatsky reaction with anisil, 827.

Cook, *J. W.* See also **Barnett,** *E. de B.*

Coward, *H. F.*, and **Georgeson,** *E. H. M.*, studies in the mechanism of flame movement. Part III. The speed of flame in currents of mixtures of methane and air, 546.

Cowie, *D. W.*, and **Gibson,** *D. T.*, the mobility of groups containing a sulphur atom. Part II., 306.

Cowley, *E. G.*, and **Partington,** *J. R.*, studies in dielectric polarisation. Parts VIII., IX., X., and XI., 1252.

Cox, *E. G.*, and **Preston,** *G. H.*, the molecular structure of some co-ordination compounds of platinum and palladium, 1089.

Cox, *W. M.*, and **Wolfenden,** *J. H.*, the viscosity of nitrobenzene, 118.

Cremer, *H. W.*, and **Duncan,** *D. R.*, a study of the polyhalides. Part IV. Reactions in the absence of a solvent, 181.

Crone, *H. G.* See **Norrish,** *R. W. G.*

Crook, *J. H.* See **Hodgson,** *H. H.*

Cumming, *W. M.*, and **Howie,** *G.*, some dinaphthyl bases. Part II. Reduction of 1:1′-azoxy- and 1:1′-azo-naphthalenes; isolation of 1:1′-hydrazonaphthalene, 133.

Cunningham, *J. P.* See **Rule,** *H. G.*

Curd, *F. H.*, and **Robertson,** *A.*, usnic acid. Part I. Derivatives of methylphloroglucinol. Part II. Usneol. Part III. Usnetol, usnetic acid, and pyrousnic acid, 437, 714, 1173.

the nitration of 4-nitro-*o*-tolyl *p*-toluenesulphonate, 1166.

Curd, *F. H.*, **Robertson,** *A.*, and **Stephenson,** *R. J.*, lichen acids. Part IV. Atranorin, 130.

Currie, *T.*, and **Russell,** *A.*, the depside esters of dihydric phenols and some polydepsides, 140.

Cusa, *N. W.*, and **Kipping,** *F. S.*, organic derivatives of silicon. Part XLVIII. Steric effects of the *cyclo*-hexyl group, 1040.

D.

Dann, *A. T.*, **Davies,** *W.*, **Hambly,** *A. N.*, **Paul,** *R. E.*, and **Semmens,** *G. S. C.*, phthalyl fluoride, 15.

Davies, *C. W.*, the limiting conductivities of salts in non-aqueous solvents, 645.

Davies, *C. W.* See also **Matthews,** *H. E.*

Davies, *D. G.*, specific heats of aqueous solutions of potassium *n*-octoate at 15°, 551.

Davies, *E. R. H.* See **Bury,** *C. R.*

Davies, *W.*, **Hambly,** *A. N.*, and **Semmens,** *G. S. C.*, the tautomerism of phthalyl bromide, 1309.

Davies, *W.* See also **Dann,** *A. T.*

Davies, *W. C.*, tertiary phosphines containing secondary alkyl radicals, 1043.

Davies, *W. H.*, **Heilbron,** *I. M.*, and **Jones,** *W. E.*, the unsaponifiable matter from the oils of elasmobranch fish. Part IX. The structure of batyl and selachyl alcohols, 165.

Davy, *L. G.*, and **Sidgwick,** *N. V.*, freezing points of solutions of nitrobenzene in benzene and *cyclo*-hexane, and their relations to the electrical polarisation, 281.

Dawson, *H. M.*, and **Dyson,** *N. B.*, the hydrolysis of salts of the halogen-substituted aliphatic acids in aqueous solution, 49.
mechanism of substitution in organic compounds; elimination of bromine from bromoacetic acid and the bromoacetates, 1133.
Dawson, *H. M.*, **Pycock,** *E. R.*, and **Spivey,** *E.*, bisulphate-ion catalysis in the hydrolysis of esters, 291.
Debye, *P.*, relations between stereochemistry and physics, 1366.
Denham, *H. G.*, and **Fife,** *C. V.*, the ternary system mercurous oxide–nitrogen pentoxide–water, 1416.
Dodd, *E. N.* See **Britton,** *H. T. S.*
Donnan, *F. G.*, Ostwald Memorial Lecture, 316.
Drew, *H. D. K.*, and **Head,** *F. S. H.*, derivatives of methylene-blue, 248.
Drew, *H. D. K.*, **Preston,** *G. H.*, **Wardlaw,** *W.*, and **Wyatt,** *G. H.*, plato- and pallado-sulphines, 1294.
Drew, *H. D. K.*, and **Tress,** *H. J.*, some new types of chelated platinammines, 1335.
Dudley, *H. W.*, and **Ochoa,** *S.*, benzoylphenacylcarbinol, 625.
Duncan, *D. R.* See **Cremer,** *H. W.*
Dyke, *W. J. C.*, and **King,** *H.*, the constitution of sulpharsphenamine, 1003.
Dyson, *N. B.* See **Dawson,** *H. M.*

E.

Earl, *J. C.*, and **Hall,** *N. F. B.*, the nitrosation of methylaniline, 510.
Easson, *L. H.*, and **Stedman,** *E.*, molecular dissymmetry and physiological activity, 1094.
Edwards, *W. A. M.* See **Hammick,** *D. L.*
Ellis, *L.* See **Challenger,** *F.*
Erdtman, *H.*, and **Robinson,** *R.*, preparation of homopiperonal, 1530.

F.

Fairbrother, *F.*, the use of phosphoric oxide as a drying agent for hydrogen chloride, 1539.
the dielectric polarisation of hydrogen chloride in solution. Part II. Benzene, ethyl bromide, and ethylene dichloride as solvents, 1541.
Farmer, *E. H.*, and **Galley,** *R. A. E.*, catalytic hydrogenation of unsaturated compounds. Part I. Additive mode in relation to selectivity of attack and catalyst activity, 687.
Farmer, *E. H.*, and **Hose,** *C. G. B.*, reactions of olefinic compounds. Part III. The orienting influence of the phenyl group, 962.
Farmer, *E. H.*, and **Martin,** *S. R. W.*, properties of conjugated compounds. Part XIX. The Michael reaction applied to a triene ester, 960.
Farmer, *E. H.*, and **Wallis,** *N. J. H.*, the electric moments of cyclic 1:1-dicarboxylic esters in relation to the valency-deflexion hypothesis, 1304.
Farmer, *E. H.*, and **Warren,** *F. L.*, properties of conjugated compounds. Part XVI. The dipole moments and atomic polarisation of the monomethyl- and dimethyl-butadienes. Part XVII. The determination of the dipole moments of the monomethyl- and dimethyl-butadienes (continued), 1297, 1302.
Farmer, *E. H.* See also **Bloomfield,** *G. F.*
Fenton, *F. G.*, **Hey,** *L.*, and **Ingold,** *C. K.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XIX. Thermal decomposition of phosphonium chlorides, 989.
Field, *M. C.* See **McBain,** *J. W.*
Fife, *C. V.* See **Denham,** *H. G.*
Finch, *G. I.* See **Bradford,** *B. W.*
Fisher, (*Miss*) *N. I.*, and **Hamer,** (*Miss*) *F. M.*, tricarbocyanines, 189.
Fitzgerald, *J. S.*, and **Packer,** *J.*, the chemistry of the glutaconic acids. Part XXIII. The catalytic effect of acids on the rate of racemisation of *l-trans*-$\alpha\gamma$-dimethylglutaconic acid, 595.
Fletcher, *F. W.*, obituary notice of, 1646.
Foster, *A. R.* See **Bassett,** *H.*
France, *H. V.* See **Hodgson,** *H. H.*
Fraser, *R. G. J.* See **Broadway,** *L. F.*
Freeman, (*Miss*) *D.*, **Laybourn,** *K.*, and **Madgin,** *W. M.*, further studies on the formation of oxynitrates of lead in molten salts, 648.
Friend, *J. N.*, and **Wheat,** *W. N.*, solubility of barium nitrate in water, 501.
Fulton, *J. D.*, and **Robinson,** *R.*, synthesis of octahydrophenanthrene derivatives, 1463.

G.

Galley, *R. A. E.* See **Farmer,** *E. H.*
Gardner, *W. K.* See **Caven,** *R. M.*
Garner, *W. E.*, **Gomm,** *A. S.*, and **Hailes,** *H. R.*, the thermal decomposition of solids, 1393.
Garner, *W. E.*, and **Moon,** *C. H.*, the acceleration of the decomposition of solids by the emission from radium, 1398.
Gatty, *O.* See **Clark,** *D. N.*
George, *C. M.* See **Martin,** *A. R.*
Georgeson, *E. H. M.* See **Coward,** *H. F.*
Gibson, *C. S.*, and **Holt,** *S.*, hydrates of calcium sulphate, 638.
Gibson, *C. S.*, and **Johnson,** *J. D. A.*, 1:4-selenothian, 1529.
Gibson, *C. S.*, and **Levin,** *B.*, derivatives of benzaldehyde-*p*-arsonic acid, 352.
Gibson, *D. T.* See **Cowie,** *D. W.*
Glass, *H. M.*, **Laybourn,** *K.*, and **Madgin,** *W. M.*, liquidus and solidus studies. Part II. The ternary system KNO_3–NH_4NO_3–$Pb(NO_3)_2$, 199.
Glass, *H. M.*, and **Madgin,** *W. M.*, equilibrium constants in terms of activities derived from cryoscopic data. Part I. The dissociation of pyridine *o*-chlorophenoxide in benzene. Part II. The dissociation of pyridine *o*-chlorophenoxide in *p*-dichlorobenzene, 193, 1431.
Glasstone, *S.*, and **Hickling,** *A.*, a new volumetric method for the estimation of dithionates, 5.
studies in electrolytic oxidation. Part III. The formation of dithionate by the electrolytic oxidation of potassium sulphite, 829.
Glover, *T. J.*, the influence of acid concentration on the oxidation–reduction potential of mixtures of ferric and ferrous sulphates in sulphuric acid solution, 10.
Goepp, *R. M.* See **Chattaway,** *F. D.*
Gomm, *A. S.* See **Garner,** *W. E.*
Goss, *F. R.*, the interpretation of electric polarisation coefficients, 1341.
Gough, *G. A. C.*, and **King,** *H.*, 4-nitro-5-(3-pyridyl)-pyrazole, a new oxidation product of nicotine. Part III. Confirmatory synthetical experiments, 350.
Gow, *E. R. L.* See **McKenzie,** *A.*
Graham, *H.* See **Parke,** *J. B.*
Grant, *G. H.*, and **Hinshelwood,** *C. N.*, the kinetics of reactions in solution; the interaction of potassium hydroxide and the alkyl halides in ethyl alcohol, 258.
the interaction of benzoyl chloride and aniline in carbon tetrachloride and in hexane solution, 1351.

Gray, *C. G.* See **Nisbet,** *H. B.*
Grayson, *H. J.* See **Brady,** *O. L.*
Grieve, *W. S. M.*, and **Hey,** *D. H.*, substitution in compounds containing two or more phenyl groups. Part IV. Nitration of diphenyl derivatives containing *m*-directing substituents, 968.
Grubb, *W. J.* See **Read,** *J.*
Gulati, *K. C.*, and **Venkataraman,** *K.*, synthetical experiments in the chromone group. Part IX. A synthesis of 5:7:4′-trihydroxy-3′:5′-dimethoxyflavone, believed to be identical with tricin, 942. a synthesis of tricin, 1644.
Gulland, *J. M.*, and **Macrae,** *T. F.*, the constitution of the purine nucleosides, 662.

H.

Haddock, *N. H.* See **Perkin,** *A. G.*
Hailes, *H. R.* See **Garner,** *W. E.*
Hall, *H. I.*, and **Plant,** *S. G. P.*, reactions of 1:2:3:4-tetrahydroxanthone, 232.
Hall, *N. F. B.* See **Earl,** *J. C.*
Hambly, *A. N.* See **Dann,** *A. T.*, and **Davies,** *W.*
Hamer, (*Miss*) *F. M.* See **Fisher,** (*Miss*) *N. I.*
Hammick, *D. L.*, **Edwards,** *W. A. M.*, **Illingworth,** *W. S.*, and **Snell,** *F. R.*, the existence of aromatic bisnitroso-compounds of the type $R'N_2O_2R''$, 671.
Hammick, *D. L.*, and **Hanson,** *T. K.*, solid–liquid equilibria in the system nitrobenzene–*m*-dinitrobenzene, 669.
Hanson, *T. K.* See **Hammick,** *D. L.*
Haq, *M. A.*, **Kapur,** *M. L.*, and **Rây,** *J. N.*, quinoline derivatives. Part I. Furanoquinolines, 1087.
Harford, (*Miss*) *M. B.*, **Kenyon,** *J.*, and **Phillips,** *H.*, the rotatory powers of the chlorides produced by heating certain chloroformates in solvents, 179.
Harrower, *J.* See **Rule,** *H. G.*
Hartley, *E. G. J.*, and **Powell,** *H. M.*, studies on alkylated complex cyanides. Part I. The isomerism of the alkylated ferrocyanides. Part II. Hexaethylated ferrocyanides, 101.
Hartley, (*Sir*) *H.*, Joseph Priestley, 915.
Hartley, (*Sir*) *H.* See also **Clark,** *D. N.*, and **Mead,** *T. H.*
Hartog, (*Sir*) *P.*, Joseph Priestley, 896.
Hatt, *H. H.*, the constitutions of some phosphorus derivatives of triphenylmethane, 776.
Haworth, *R. D.*, and **Mavin,** *C. R.*, a new route to chrysene and 1:2-benzanthracene, 1012.
Haworth, *W. N.* See **Ault,** *R. G.*
Head, *F. S. H.* See **Drew,** *H. D. K.*
Heap, *T.*, the action of heat on β-naphthyl*iso*propylamine hydrochloride, 495.
Heilbron, *I. M.*, **Heslop,** *R. N.*, and **Howard,** *G. F.*, styrylpyrylium salts. Part XV. Production of α-benzopyrones by the Kostanecki reaction, 1263.
Heilbron, *I. M.*, **Heslop,** *R. N.*, and **Irving,** *F.*, styrylpyrylium salts. Part XIV. Further study of the colour phenomenon associated with benzonaphtha- and dinaphtha-*spiro*pyrans, 430.
Heilbron, *I. M.*, **Morrison,** *A. L.*, and **Simpson,** *J. C. E.*, studies in the sterol group. Part XVII. The unsaturated centres in ergosterol, 302.
Heilbron, *I. M.*, **Samant,** *K. M.*, and **Simpson,** *J. C. E.*, studies in the sterol group. Part XVIII. An attempt to define the position of the hydroxyl group in ergosterol, 1410.
Heilbron, *I. M.*, **Simpson,** *J. C. E.*, and **Spring,** *F. S.*, the structure of the sterols and bile acids, 626.
Heilbron, *I. M.* See also **Davies,** *W. H.*
Henderson, *G. G.*, presidential address, 463.
Henstock, *H.*, the identification of alcohols in dilute aqueous solution, 216.
Herbert, *R. W.*, **Hirst,** *E. L.*, **Percival,** *E. G. V.*, **Reynolds,** *R. J. W.*, and **Smith,** *F.*, the constitution of ascorbic acid, 1270.
Herbert, *R. W.*, **Hirst,** *E. L.*, and **Wood,** *C. E.*, optical rotatory dispersion in the carbohydrate group. Part II. Ascorbic acid, 1564.
Herbert, *R. W.* See also **Ault,** *R. G.*
Heslop, *R. N.* See **Heilbron,** *I. M.*
Hetherington, *J. A.*, and **Masson,** *I.*, a mode of studying nitration, 105.
Hewett, *C. L.* See **Cook,** *J. W.*
Hey, *D. H.* See **Grieve,** *W. S. M.*
Hey, *L.*, and **Ingold,** *C. K.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part X. Formation and decomposition of dibenzyldiallylammonium hydroxide. Part XVII. Thermal decomposition of phosphonium ethoxides, 66, 531.
Hey, *L.* See also **Fenton,** *G. F.*
Hickinbottom, *W. J.*, the preparation of alkylanilines containing tertiary alkyl groups, 946.
the elimination of tertiary alkyl groups from alkylanilines by hydrolysis, 1070.
Hickling, *A.* See **Glasstone,** *S.*
Hieger, *I.* See **Cook,** *J. W.*
Higginbottom, (*Miss*) *C.* See **Challenger,** *F.*
Hilditch, *T. P.* See **Collin,** *G.*
Hill, *P.*, and **Robinson,** *R.*, strychnine and brucine. Part XXIV. Synthesis of dinitrostrycholamide, 486.
Hinshelwood, *C. N.*, the mechanism of chemical reactions, 1357.
Hinshelwood, *C. N.* See also **Bairstow,** *S.*, **Grant,** *G. H.*, and **Musgrave,** *F. F.*
Hirst, *E. L.* See **Ault,** *R. G.*, and **Herbert,** *R. W.*
Hodges, *F. W.*, the photo-change of *N*-chloroacetanilide in various solvents, 240.
Hodgson, *H. H.*, and **Clay,** *H.*, the nitrosation of phenols. Part XV. Resorcinol mono-*n*-butyl ether, 660.
Hodgson, *H. H.*, and **Crook,** *J. H.*, the four dinitrodimethyl-*p*-anisidines, 825.
Hodgson, *H. H.*, and **France,** *H. V.*, the reaction between *o*-toluidine and sulphur, 296.
Hodgson, *H. H.*, and **Smith,** *E. W.*, 3:5-dinitrobenzaldehyde, 315.
the apparent anomalous lability of the 2-nitro-group in 2:3-dinitrotoluene, 500.
Hodgson, *H. H.*, and **Walker,** *J.*, the nitration of aceto-α-naphthalide, and the preparation of 2- and 4-nitro-1-naphthylamines, 1205.
preparation of pure 1:5- and 1:8-dinitronaphthalene and of 5-nitro-1-naphthylamine, 1346.
the diazotisation of aromatic nitroamines and the prevention of diaryl formation in the Sandmeyer reaction, 1620.
Hodgson, *H. H.*, **Walker,** *J.*, and **Nixon,** *J.*, the direct dibromination of *m*-bromophenol and an example of group migration, 1053.
Holt, *S.* See **Gibson,** *C. S.*
Hope, *E.*, **Kersey,** *R. W. R.*, and **Richter,** *D.*, the benzoyl derivatives of indigotin, 1000.
Hose, *C. G. B.* See **Bloomfield,** *G. F.*, and **Farmer,** *E. H.*
Hovde, *F. L.* See **Thompson,** *H. W.*
Howard, *G. F.* See **Heilbron,** *I. M.*
Howell, *O. R.*, and **Robinson,** *H. G. B.*, the electrical conductivities of liquid mixtures of phenol–aniline, phenol–*p*-toluidine, and phenol–*m*-cresol, 1032.
Howie, *G.* See **Cumming,** *W. M.*
Howis, *C. C.* See **Chapman,** *A. W.*
Hudson, *H.*, **Wolfrom,** *M. L.*, and **Lowry,** *T. M.*, the rotatory dispersion of organic compounds. Part XXIII. Rotatory dispersion and circular dichroism of aldehydic sugars, 1179.

Hughes, *A. H.*, the behaviour of surface films of unsaturated compounds, 338.

Hughes, *E. D.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XIV. The action of tertiary amines on triphenylmethyl halides, 75.

Hughes, *E. D.*, and **Ingold,** *C. K.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XIII. Decompositions of some quaternary ammonium salts containing the methyl, benzyl, and benzhydryl groups. Part XV. Dynamics of the elimination of olefins from quaternary ammonium compounds. Part XXI. Dynamics of the elimination of the *tert.*-butyl group from sulphonium compounds, 69, 523, 1571.

Hughes, *E. D.*, **Ingold,** *C. K.*, and **Patel,** *C. S.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XVI. Mechanism of the thermal decomposition of quaternary ammonium compounds, 526.

Hughes, *E. D.* See also **Brady,** *O. L.*

Hughes, *O. L.* See **Clark,** *D. N.*, and **Mead,** *T. H.*

Hunter, *E. C. E.*, and **Partington,** *J. R.*, studies in dielectric polarisation. Part V. Benzene solutions of pyrones, thiopyrones, and thioketones; dioxan solutions of ureas and thioureas. Parts VI. and VII., 87, 309.

I.

Illingworth, *W. S.* See **Hammick,** *D. L.*

Ing, *H. R.*, the alkaloids of *Anagyris foetida* and their relation to the lupin alkaloids, 504.

Ingham, *J. W.*, and **Morrison,** *J.*, the dissociation constant of hypochlorous acid; glass-electrode potential determinations, 1200.

Ingold, *C. K.*, significance of tautomerism and of the reactions of aromatic compounds in the electronic theory of organic reactions, 1120.

Ingold, *C. K.*, **Jessop,** *J. A.*, **Kuriyan,** *K. I.*, and **Mandour,** *A. M. M.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XVIII. Thermal decomposition of sulphonium hydroxides, 533.

Ingold, *C. K.*, and **Kidd,** *H. V.*, the mechanism of aromatic rearrangements. Part II. The benzidine change, 984.

Ingold, *C. K.*, and **Kuriyan,** *K. I.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XX. Elimination of saturated primary alcohols by thermal decomposition of sulphonium hydroxides, 991.

Ingold, *C. K.*, and **Patel,** *C. S.*, influence of poles and polar linkings on the course pursued by elimination reactions. Part XI. Decomposition of quaternary ammonium hydroxides containing the *tert.*-butylcarbinyl group. Part XII. Decomposition of quaternary ammonium alkoxides, 67, 68.

Ingold, *C. K.*, and **Shah,** *L. D.*, the modes of addition to conjugated unsaturated systems. Part V. The hydrogenation of ethyl muconate and sorbic and β-vinylacrylic acids in the presence of platinum, 885.

Ingold, *C. K.*, and **Wilson,** *C. L.*, optical activity in relation to tautomeric change. Part I. Conditions underlying the transport of the centre of asymmetry in tautomeric systems, 1493.

Ingold, *C. K.* See also **Fenton,** *G. F.*, **Hey,** *L.*, and **Hughes,** *E. D.*

Irving, *F.* See **Heilbron,** *I. M.*

Irving, *H.* See **Chattaway,** *F. D.*

Ives, *D. J. G.*, the dissociation constant of acetic acid, 313.

the determination of dissociation constants of monobasic acids, 731.

the specific effect of the solvent in electrolytic dissociation, 1360.

Ives, *D. J. G.*, **Linstead,** *R. P.*, and **Riley,** *H. L.*, investigations of the olefinic acids. Part VIII. Dissociation constants, 561.

J.

James, *T. C.* See **Robinson,** *H. V. W.*

Jeffery, *G. H.*, **Vogel,** *A. I.*, and **Lowry,** *H. V.*, the dissociation constants of organic acids. Part VII. Acetic acid; the solvent correction for salts of weak monobasic acids, 1637.

Jelley, *E. E.*, the preparation and constitution of the thiostannates. Part I. Sodium ortho- and meta-thiostannate, 1580.

Jessop, *J. A.* See **Ingold,** *C. K.*

Johnson, *J. D. A.*, some physical constants of thioxan, selenoxan, and dithian, 1530.

$\alpha\epsilon$-dibromopentane, 1531.

the asymmetric arsenic atom; attempts to prepare optically active arsenicals, 1634.

Johnson, *J. D. A.* See also **Gibson,** *C. S.*

Jones, *B.*, the rotatory dispersion of organic compounds. Part XXI. Cyclic derivatives of tartaric and malic acids. Part XXII. Borotartrates and boromalates, 788, 951.

Jones, *E. C. S.*, and **Kenner,** *J.*, the catalytic decomposition of nitroso-β-alkylamino-ketones. Part I. A new method of preparing diazomethane, and evidence of the occurrence of diazotisation in the aliphatic series, 363.

Jones, *E. T.*, and **Robertson,** *A.*, natural glycosides. Part V. Ruberythric acid, 1167.

syntheses of glycosides. Part X. The synthesis of primeverin, 1618.

Jones, *H. C.*, obituary notice of, 468.

Jones, *W. E.* See **Davies,** *W. H.*

Jones, *W. O.* See **Cahn,** *R. S.*

Joshi, *S. S.*, additive compounds of pyridine, 313.

K.

Kanga, *D. D.* See **Shah,** *M. S.*

Kapur, *M. L.* See **Haq,** *M. A.*

Kay, *S. A.*, obituary notice of, 1647.

Kelland, *N. S.* See **Thompson,** *H. W.*

Kenner, *J.* See **Jones,** *E. C. S.*

Kenyon, *J.*, **Phillips,** *H.*, and **Taylor,** *F. M. H.*, Walden inversion reactions of the *p*-toluenesulphonic and *p*-toluenesulphinic esters of *l*-phenylmethylcarbinol, 173.

Kenyon, *J.* See also **Harford,** (*Miss*) *M. B.*

Kermack, *W. O.*, and **Muir,** *W.*, attempts to extend the Mannich reaction to derivatives of 4-methylquinoline and 2:4-dinitrotoluene, 300.

Kerr, *G. M. T.* See **Chattaway,** *F. D.*

Kersey, *R. W. R.* See **Hope,** *E.*

Kidd, *H. V.* See **Ingold,** *C. K.*

King, *A.*, studies in chemisorption on charcoal. Part I. The acid constituent of charcoal, 842.

King, *F. E.*, **Liguori,** *M.*, and **Robinson,** *R.*, experiments on the synthesis of physostigmine (eserine). Part IX. An improvement in the synthesis of *dl*-eserethole, 1475.

King, *F. E.*, and **Robinson,** *R.*, experiments on the synthesis of physostigmine (eserine). Part VII., 270.

King, *F. E.*, Robinson, *R.*, and **Suginome, *H.*,** experiments on the synthesis of physostigmine (eserine). Part VIII., 1472.
King, *H.* See **Dyke, *W. J. C.*,** and **Gough, *G. A. C.***
King, *H. J. S.*, researches on ammines. Part VII. The action of acids on dihydroxotetramminocobaltic hydroxide. Part VIII. Dihydroxotetramminochromic hydroxide and its derivatives, 517, 520.
Kipping, *F. B.*, the stereoisomeric 2:3:5:6-tetramethylpiperazines. Part IV., 143.
the attempted resolution of some substituted disulphonylmethanes and the resolution of α-*p*-carboxyphenylsulphonyl-α-*p*-tolylthioethane, 1506.
Kipping, *F. S.* See **Cusa, *N. W.***
Kirkbride, *F. W.*, and **Norrish, *R. G. W.*,** primary photochemical processes. Part II. The absorption spectrum and photochemical decomposition of diazomethane, 119.
Kon, *G. A. R.*, syntheses of polycyclic compounds related to the sterols. Part I., 1081.
Kon, *G. A. R.*, and **Nandi, *B. L.*,** the structure of the glutaconic acids and esters. Part VIII. Some cyclic compounds of the glutaconic and the citraconic acid series, 1628.
Kuriyan, *K. I.* See **Ingold, *C. K.***

L.

Lawrence, *C. G.* See **Chattaway, *F. D.***
Lawson, *W.* See **Cook, *J. W.***
Laybourn, *K.*, and **Madgin, *W. M.*,** liquidus and solidus studies. Part III. The ternary system $Ba(NO_3)_2$–$Ca(NO_3)_2$–KNO_3, 236.
Laybourn, *K.* See also **Freeman, (*Miss*) *D.*,** and **Glass, *H. M.***
Le Fèvre, (*Mrs.*) *C. G.*, and **Le Fèvre, *R. J. W.*,** preparation of halogeno- and other 2-phenylbenzopyrylium salts, 1532.
Le Fèvre, *R. J. W.*, volume effects of alkyl groups in aromatic compounds. Part I. Influence of 2:6-dinitration on a group CR_1R_2Alk. Part II. Influence of a group CR_1R_2Alk on vicinal substitution, 977, 980.
Le Fèvre, *R. J. W.*, Markham, *P. J.*, and **Pearson, *J.*,** the nitration of chalkone, 344.
Le Fèvre, *R. J. W.*, and **Pearson, *J.*,** comparison of the directive powers of elements having consecutive atomic numbers. Part V. The nitration of 9-phenylxanthylium perchlorate, 482.
(*a*) a case of ketonic activity of acetic anhydride, and (*b*) the condensation of salicylaldehyde with benzoylacetone, 1197.
Le Fèvre, *R. J. W.* See also **Le Fèvre, (*Mrs.*) *C. G.***
Legard, *A. R.* See **Moelwyn-Hughes, *E. A.***
Lemon, *J. T.* See **Bassett, *H.***
Lesslie, (*Miss*) *M. S.*, and **Turner, *E. E.*,** the optical activity of a diphenyl derivative, the dissymmetry of which is caused by the space effect of only one group, 1588.
Letch, *R. A.*, and **Linstead, *R. P.*,** the preparation and estimation of nitriles of Δ^{α}- and Δ^{β}-olefinic acids, 612.
Levi, *A.*, Warren, *L. A.*, and **Smiles, *S.*,** a rearrangement of *o*-acetamido-sulphoxides, 1490.
Levin, *B.* See **Gibson, *C. S.***
Lewis, *D. T.* See **Robinson, *H. V. W.***
Lewis, *G. J.* See **Maxted, *E. B.***
Liguori, *M.* See **King, *F. E.***
Linstead, *R. P.*, Noble, *E. G.*, and **Boorman, *E. J.*,** investigations of the olefinic acids. Part VII. The preparation of Δ^{β}-acids, 557.
Linstead, *R. P.*, and **Rydon, *H. N.*,** investigations of the olefinic acids. Part XI. The formation of lactones from some Δ^{γ}-unsaturated acids, and an example of ring-chain (lacto-enoic) tautomerism, 580.
Linstead, *R. P.* See also **Boorman, *E. J.*, Ives, *D. J. G.*,** and **Letch, *R. A.***
Loudon, *J. D.*, mercury derivatives of camphor. Part I. The constitution of Reychler's acid, 823.
Lowry, *H. V.* See **Jeffery, *G. H.***
Lowry, *T. M.*, and **Pearman, *S. A.*,** the rotatory dispersive power of organic compounds. Part XXIV. Ascorbic acid, 1444.
Lowry, *T. M.* See also **Hudson, *H.***
Lund, *H.*, pyridylnitropyrazole, an oxidation product of nicotine; the position of the nitro-group, 686.
Lye, *R. J.* See **Chattaway, *F. D.***

M.

McBain, *J. W.*, and **Field, *M. C.*,** phase-rule equilibria of acid soaps. Part II. Anhydrous acid sodium palmitates, 920.
McBain, *J. W.*, and **Stewart, *A.*,** phase-rule equilibria of acid soaps. Part III. Anhydrous acid potassium oleate, 924.
conductivity in the three-component system oleic acid–potassium oleate–water, 928.
McClelland, *J. A. C.*, and **Smiles, *S.*,** halogen derivatives of dehydro-2-naphthol 1-disulphide, 786.
McCreath, *D.* See **Patterson, *T. S.***
MacFarlane, *W.*, and **Wright, *R.*,** binary liquid systems and the mixture rule, 114.
McKay, *W. B.* See **Roger, *R.***
McKenzie, *A.*, and **Gow, *E. R. L.*,** the isomeric (—) menthyl α-naphthylglycollates, 32.
experiments on the Walden inversion. Part XII. The displacement of hydroxyl by chlorine in the optically active ethyl α-naphthylglycollates, 705.
Maclennan, *W. H.* See **Butler, *J. A. V.***
McMahon, *F. A.*, Pearson, *T. G.*, and **Robinson, *P. L.*,** an improved preparation of selenophen and attempts to prepare tellurophen, 1644.
McMeeking, *W.*, and **Stevens, *T. S.*,** reduction of α-amino-nitriles, 347.
Macrae, *T. F.*, and **Tucker, *S. H.*,** the dicarbazyls. Part IV. Synthesis of 1:1′-dicarbazyl, 1520.
Macrae, *T. F.* See also **Gulland, *J. M.***
Madgin, *W. M.* See **Freeman, (*Miss*) *D.*, Glass, *H. M.*,** and **Laybourn, *K.***
Mahal, *H. S.*, and **Venkataraman, *K.*,** 4-styrylcoumarins, 616.
Mahal, *H. S.* See also **Chadha, *T. C.***
Malcolm, *D.* See **Read, *J.***
Mandour, *A. M. M.* See **Ingold, *C. K.***
Mann, *F. G.*, the complex metallic salts of sulphamide: an optically active inorganic salt, 412.
Markham, *P. J.* See **Le Fèvre, *R. J. W.***
Marsh, *J. K.* See **Bradley, *G.***
Martin, *A. R.*, and **George, *C. M.*,** partial vapour pressures and refractivities of mixtures of benzene with nitrobenzene, phenol, benzyl alcohol, or *p*-dichlorobenzene, 1413.
Martin, *S. R. W.* See **Farmer, *E. H.***
Martindale, *W. H.*, obituary notice of, 1648.
Mason, *F. A.* See **Brown, *W. R.***
Masson, *I.* See **Hetherington, *J. A.***
Mathers, *D. S.*, and **Robertson, *G. J.*,** optical superposition and the 4:6-benzylidenemethylglucosides, 696.
Walden inversion in the glucose series; derivatives of altrose, 1076.

Matthews, *H. E.*, and **Davies,** *C. W.*, the activity of ammonia in ammonium chloride solutions, 1435.
Mavin, *C. R.* See **Haworth,** *R. D.*
Maxted, *E. B.*, and **Lewis,** *G. J.*, the energetics of catalysis. Part I. The energetic homogeneity of a platinum surface, 502.
Maxwell, *G. B.*, and **Wheeler,** *R. V.*, explosions of mixtures of hydrogen and air: the specific heats of steam at high temperatures, 882.
Mead, *T. H.*, **Hughes,** *O. L.*, and **Hartley,** (*Sir*) *H.*, the conductivity of tetramethylammonium salts in methyl and ethyl alcohol, 1207.
Meldrum, *A. N.*, Joseph Priestley, 902.
Melville, *H. W.*, and **Roxburgh,** *H. L.*, the thermal decomposition of phosphine by tungsten and molybdenum, 586.
Menzies, *R. C.*, and **Overton,** *H.*, covalency, co-ordination, and chelation, 1290.
Menzies, *R. C.*, and **Wiltshire,** *E. R.*, applications of thallium compounds in organic chemistry. Part IX. Changes observed on replacing dialkylthallium by trimethylplatinum in chelate rings, 21.
Miki, *K.*, and **Robinson,** *R.*, attempts to find new antimalarials. Part VI. Preparation of β-6:7-dimethoxyquinaldyl-(4)-ethylamine dihydrochloride, 1467.
Mitchell, *W. A.*, and **Smiles,** *S.*, 7-phenylthio-derivatives of deoxybenzoin, 1529.
Moelwyn-Hughes, *E. A.*, the kinetics of certain reactions of the alkyl halides in hydroxylic solvents, 1576.
Moelwyn-Hughes, *E. A.*, and **Legard,** *A. R.*, the kinetics of the addition of iodine to β-phenylpropiolic acid, 424.
Moon, *C. H.* See **Garner,** *W. E.*
Mooney, *R. B.*, and **Reid,** *H. G.*, the reaction between hydrogen iodide and chlorine, 1315.
the reactions between hydrogen iodide and the cyanogen halides, 1318.
Morgan, *G. T.*, and **Stewart,** (*Miss*) *J.*, arsonic acids of the fluorenone and the fluorenol series, 1454.
Morgan, *G. T.*, and **Walton,** *E.*, new derivatives of *p*-arsanilic acid. Part IV. *p*-Arsonoadipanilic acid and related compounds. Part V. *p*-Arsonomethylmalonanilic acid and related compounds, 91, 1064.
Morgans, *W. M.* See **Baker,** *W.*
Morrison, *A. L.* See **Heilbron,** *I. M.*
Morrison, *J.* See **Ingham,** *J. W.*
Morrison, *T. J.* See **Ross,** *J. D. M.*
Moss, *S. A.*, and **Rideal,** *E. K.*, the vaporous state of myristic acid films on aqueous solutions, 1525.
Müller, *A.*, and **Robertson,** *A.*, natural glycosides. Part VI. The hexose residue of phloridzin, 1170.
Muir, *J. J.* See **Bolam,** *T. R.*
Muir, *W.* See **Kermack,** *W. O.*
Mumford, *S. A.* See **Phillips,** *J. W. C.*
Murray, *R. C.*, preparation of hexadecanesulphonic acid, 739.
Musgrave, *F. F.*, and **Hinshelwood,** *C. N.*, the interaction of carbon monoxide and nitric oxide, 56.

N.

Nandi, *B. L.* See **Kon,** *G. A. R.*
Nathan, *W. S.*, and **Watson,** *H. B.*, constitutional factors controlling prototropic changes in carbonyl compounds. Part III. The prototropy of nuclear-substituted acetophenones. Part V. A relationship between the polar characters of substituent groups and the activation energies of proton addition, 217, 890.
the influence of nuclear substituents upon side-chain reactions. Part I., 1248.
Naylor, *C. A.*, and **Wheeler,** *R. V.*, the ignition of gases. Part VIII. Ignition by a heated surface; (*a*) mixtures of ethane, propane, or butane with air; (*b*) mixtures of ethylene, propylene, or butylene with air, 1240.
Nelmes, (*Miss*) *M. C.*, and **Tucker,** *S. H.*, the dicarbazyls. Part V. Synthesis of 3:9′-dicarbazyl, 1523.
New, *R. G. A.* See **Sutton,** *L. E.*
Newman, *A. C. C.*, and **Riley,** *H. L.*, the synthesis of tartaric acid, 45.
Newman, *A. C. C.* See also **Astin,** *S.*
Nieuwland, *J. A.* See **Vaughn,** *T. H.*
Nisbet, *H. B.*, the reactivity of groups in substituted acridones. Part II. Cationoid activity at position 4 in acridones, 1372.
Nisbet, *H. B.*, and **Gray,** *C. G.*, heterocyclic ketones. Part I. β-Amino-ketones and related pyrazolines derived from benzylidene- and furfurylideneacetone, 839.
Nixon, *J.* See **Hodgson,** *H. H.*
Noble, *E. G.* See **Linstead,** *R. P.*
Norrish, *R. G. W.*, **Crone,** *H. G.*, and **Saltmarsh,** (*Miss*) *O.*, primary photochemical processes. Part III. The absorption spectrum and photochemical decomposition of keten, 1533.
Norrish, *R. G. W.* See also **Kirkbride,** *F. W.*

O.

Ochoa, *S.* See **Dudley,** *H. W.*
Ormston, *J.* See **Clemo,** *G. R.*
Orr, *J. B.*, obituary notice of, 1649.
Outhwaite, *G. H.* See **Chattaway,** *F. D.*
Overton, *H.* See **Menzies,** *R. C.*
Owen, *J.*, and **Simonsen,** *J. L.*, the resolution of *cis*- and *trans-dl*-3-carboxy-1:1-dimethyl*cyclo*propane-2-propionic acids and of *trans-dl*-caronic acid, 1223.
a synthesis of homocaronic acid, 1225.

P.

Packer, *J.*, and **Sargent,** *J. D.*, the methylation of ethyl αβ-dimethylglutaconate, 556.
Packer, *J.* See also **Fitzgerald,** *J. S.*
Parke, *J. B.*, the phase volume theory and the homogenisation of concentrated emulsions, 1458.
Parke, *J. B.*, and **Graham,** *H.*, studies in emulsions. Part I., 1214.
Partington, *J. R.* See **Cowley,** *E. G.*, and **Hunter,** *E. C. E.*
Patel, *C. S.* See **Hughes,** *E. D.*, and **Ingold,** *C. K.*
Pateman, *C. R. J.* See **Bassett,** *H.*
Patterson, *H. S.* See **Cawood,** *W.*
Patterson, *T. S.*, **Blackwood,** (*Miss*) *J. H.*, and **Stewart,** *J. M.*, depression of the melting point of *r-iso*borneol, *l*-borneol, and *d*-camphoroxime by various substances, 93.
Patterson, *T. S.*, and **McCreath,** *D.*, the influence of solvents and of other factors on the rotation of optically active compounds. Part XXXI. The rotation–dispersion of the nitrobenzyl tartrates, 760.
Paul, *R. E.* See **Dann,** *A. T.*
Pearman, *S. A.* See **Lowry,** *T. M.*
Pearson, *J.* See **Le Fèvre,** *R. J. W.*
Pearson, *T. G.*, and **Robinson,** *P. L.*, the electronic structure of hexafluorides, 1427.
Pearson, *T. G.* See also **McMahon,** *F. A.*
Pedder, *J. S.*, and **Barratt,** *S.*, the determination of the vapour pressures of amalgams by a dynamic method, 537.

Percival, *E. G. V.* See **Ault,** *R. G.*, and **Herbert,** *R. W.*
Perkin, *A. G.*, and **Haddock,** *N. H.*, reduction products of the hydroxyanthraquinones, 1512.
Peters, *A. T.* See **Rowe,** *F. M.*
Phillips, *H.* See **Balfe,** *M. P.*, **Harford,** (*Miss*) *M. B.*, and **Kenyon,** *J.*
Phillips, *J. W. C.*, and **Mumford,** *S. A.*, *n*-aliphatic long-chain alcohols, 235.
Pinkard, *F. W.*, **Saenger,** *H.*, and **Wardlaw,** *W.*, the structure of some ammines of platinous chloride, 1056.
Plant, *S. G. P.*, conditions for the formation of rings attached to the meta-positions of the benzene nucleus, 1586.
Plant, *S. G. P.*, and **Tomlinson,** (*Miss*) *M. L.*, the action of halogens on polycyclic indole derivatives. Part III., 298.
addition reactions of the indole nucleus, 955.
Plant, *S. G. P.* See also **Hall,** *H. I.*
Porter, (*Miss*) *M. D.* See **Brady,** *O. L.*
Porter, *T. C.*, obituary notice of, 1650.
Powell, *H. M.* See **Bailey,** *R. W.*, and **Hartley,** *E. G. J.*
Preston, *G. H.* See **Cox,** *E. G.*, and **Drew,** *H. D. K.*
Prior, (*Miss*) *A. M.* See **Bradford,** *B. W.*
Pryde, *J.*, and **Williams,** *R. T.*, the structure of theophylline *l*-arabinoside, 640.
new derivatives of hydroxymethoxysuccinic and methoxymalonic acids, 642.
new derivatives of methoxymalonic acid, 1627.
Pugh, *W.*, conditions for estimating antimony by the permanganate method: potentiometric titration, 1.
Pycock, *E. R.* See **Dawson,** *H. M.*

R.

Raistrick, *H.*, **Robinson,** *R.*, and **Todd,** *A. R.*, a synthesis of helminthosporin, 488.
Ramage, *G. R.*, and **Robinson,** *R.*, experiments on the synthesis of substances related to the sterols. Part I. Some derivatives of chrysene, 607.
Rao, *B. S.* See **Rao,** *M. R. A.*
Rao, *M. R. A.*, and **Rao,** *B. S.*, the effect of solvent on the reaction between iodine and hydrogen sulphide, 836.
Raper, *R.* See **Clemo,** *G. R.*
Rapson, *W. S.*, and **Short,** *W. F.*, 1-methyl and 1:7-dimethyl-4-*iso*propylnaphthalene, 128.
Ray, *J. N.* See **Bhalla,** *A. L.*, and **Haq,** *M. A.*
Read, *J.*, and **Grubb,** *W. J.*, researches in the menthone series. Part X. The complete optical resolution of *dl-neo*menthol by means of *l*-menthol, 167.
Read, *J.*, **Grubb,** *W. J.*, and **Malcolm,** *D.*, researches in the menthone series. Part XI. Diagnosis and characterisation of the stereoisomeric menthols, 170.
Redd, *R.* See **Bury,** *C. R.*
Rée, *A.*, obituary notice of, 471.
Reid, *H. G.* See **Mooney,** *R. B.*
Reynolds, *R. J. W.* See **Herbert,** *R. W.*
Reynolds, (*Miss*) *T. M.*, new substituted glucosides, 223.
Rhodes, *J. E. W.*, the hydrolysis of acetonesemicarbazone, 204.
Richardson, *D. H.* See **Armstrong,** *D. E.*
Richter, *D.* See **Hope,** *E.*
Rideal, *E. K.* See **Moss,** *S. A.*
Riley, *H. L.*, the separation and determination of copper and nickel by salicylaldoxime, 895.
Riley, *H. L.* See also **Astin,** *S.*, **Ives,** *D. J. G.*, and **Newman,** *A. C. C.*
Roberts, *D. C. V.* See **Taylor,** *T. W. J.*
Robertson, *A.*, experiments on the synthesis of rotenone and its derivatives. Part III. The dehydrorotenone nucleus. Part IV. Dehydrodihydrorotenonic acid and tephrosic acid, 489, 1163.
Robertson, *A.*, and **Sandrock,** *W. F.*, constituents of *Filix mas*. Part I. Aspidinol. Part II. The synthesis of filicinic acid, 819, 1617.
Robertson, *A.*, and **Waters,** *R. B.*, natural and synthetic indican, 30.
podophyllotoxin, 83.
Robertson, *A.* See also **Canter,** *F. W.*, **Curd,** *F. H.*, **Jones,** *E. T.*, and **Müller,** *A.*
Robertson, *G. J.*, the simultaneous preparation of 2:3:4- and 2:3:6-trimethyl glucose, 737.
Robertson, *G. J.* See also **Mathers,** *D. S.*
Robertson, *P. W.* See **Caughley,** *F. G.*
Robinson, (*Mrs.*) *A. M.*, and **Robinson,** *R.*, synthetical experiments on the nature of betanin and related nitrogenous anthocyanins. Part II., 25.
Robinson, *H.*, and **Wheeler,** *R. V.*, explosions of methane and air: propagation through a restricted tube, 758.
Robinson, *H. G. B.* See **Howell,** *O. R.*
Robinson, *H. V. W.*, and **James,** *T. C.*, relationship between the three forms of *cis*-cinnamic acid, 1453.
Robinson, *H. V. W.*, and **Lewis,** *D. T.*, the kinetics of the decomposition of the dichlorosuccinic acids, 1260.
Robinson, *P. L.* See **McMahon,** *F. A.*, and **Pearson,** *T. G.*
Robinson, *R.*, the relation of electromeric effects and relative polarisabilities of the halogens, 1114.
Robinson, *R.*, and **Rose,** *J. D.*, a synthesis of certain naphtha-(1:2:4′:3′)coumarin derivatives, 1469.
Robinson, *R.*, and **Shah,** *R. C.*, anthoxanthins. Part XV. Experiments on the synthesis of garcinin, 610.
Robinson, *R.*, and **Sugasawa,** *S.*, preliminary synthetic experiments in the morphine group. Part V. Completion of the synthesis of a laudanosoline dimethyl ether related to sinomenine, 280.
Robinson, *R.* See also **Baker,** *W.*, **Blount,** *B. K.*, **Charlesworth,** *E. H.*, **Chavan,** *J. J.*, **Erdtman,** *H.*, **Fulton,** *J. D.*, **Hill,** *P.*, **King,** *F. E.*, **Miki,** *K.*, **Raistrick,** *H.*, **Ramage,** *G. R.*, **Robinson,** (*Mrs.*) *A. M.*, and **Young,** *P. C.*
Robinson, *R. A.* See **Britton,** *H. T. S.*
Roger, *R.*, and **McKay,** *W. B.*, the dehydration of the α-forms of *r*- and (+)-*o*- and -*m*-tolylhydrobenzoins, 332.
Rose, *J. D.* See **Robinson,** *R.*
Rosenheim, *O.* See **Callow,** *R. K.*
Ross, *J. D. M.*, and **Morrison,** *T. J.*, acid salts of monobasic organic acids. Part I., 1016.
Rowe, *F. M.*, and **Peters,** *A. T.*, a new reaction of certain diazosulphonates derived from β-naphthol-1-sulphonic acid. Part XI. Constitution of the phthalazine derivatives, 1067.
tautomerism in the phthalazine series; the *N*- and *O*-derivatives of 1-methylphthalaz-4-one and phthalaz-1:4-dione, 1331.
Roxburgh, *H. L.* See **Melville,** *H. W.*
Rule, *H. G.*, **Barnett,** (*Miss*) *M. M.*, and **Cunningham,** *J. P.*, studies in solvent action. Part VII. Rotatory power of ethyl tartrate in relation to the solvent, concentration, degree of association, and temperature, 1217.
Rule, *H. G.*, **Smith,** (*Miss*) *E. B.*, and **Harrower,** *J.*, studies in solvent action. Part VI. Optical rotatory powers of β-octanol, *d*-amyl alcohol, and their derivatives, 376.
Russell, *A.* See **Currie,** *T.*
Rydon, *H. N.* See **Boorman,** *E. J.*, and **Linstead,** *R. P.*

S.

Saenger, *H.* See **Pinkard,** *F. W.*
Saltmarsh, (*Miss*) *O.* See **Norrish,** *R. G. W.*
Samant, *K. M.* See **Heilbron,** *I. M.*
Sanders, *F. G.* See **Barnett,** *E. de B.*
Sandrock, *W. F.* See **Robertson,** *A.*
Sargent, *J. D.* See **Packer,** *J.*
Scholz, *C.* See **Barger,** *G.*
Semmens, *G. S. C.* See **Dann,** *A. T.*, and **Davies,** *W.*
Shah, *L. D.* See **Ingold,** *C. K.*
Shah, *M. S.*, and **Bhatt,** *C. T.*, 5-sulpho-3-nitro- and 5-sulpho-3-hydroxy-benzoic acid, 1373.
Shah, *M. S.*, **Bhatt,** *C. T.*, and **Kanga,** *D. D.*, thiols derived from *o*-, *m*-, and *p*-methoxy-toluenes and -benzoic acids, 1375.
Shah, *R. C.* See **Robinson,** *R.*
Shannon, *A.* See **Baker,** *W.*
Shaw, *B. D.*, and **Wagstaff,** *E. A.*, the reaction between 2-picoline and aromatic aldehydes, 77.
the nitration of β-phenylethylpyridines and related compounds. Part I., 79.
Shaw, (*Miss*) *F. R.*, and **Turner,** *E. E.*, the stereochemistry of 2:2′-disubstituted diphenyls. Part III. The optical resolution of *o*-(2-dimethylaminophenyl)phenyltrimethylammonium iodide, 135.
Shoppee, *C. W.*, symmetrical triad prototropic systems. Part IX. The influence of polynuclear aryl groups upon mobility and equilibrium in the αγ-diarylmethyleneazomethine system, 37.
the effect of nuclear halogen substituents on triad prototropic systems in relation to aromatic side-chain reactions, 1117.
Shoppee, *C. W.* See also **Burton,** *H.*
Short, *W. F.* See **Anderson,** *A. R.*, and **Rapson,** *W. S.*
Sidgwick, *N. V.*, **Sutton,** *L. E.*, and **Thomas,** *W.*, dipole moments and structures of the organic azides and aliphatic diazo-compounds, 406.
Sidgwick, *N. V.* See also **Davey,** *L. G.*
Simonsen, *J. L.* See **Cahn,** *R. S.*, and **Owen,** *J.*
Simpson, *J. C. E.* See **Heilbron,** *I. M.*
Simpson, *N. M.* See **Baker,** *W.*
Smiles, *S.* See **Levi,** *A.*, **McClelland,** *J. A. C.*, and **Mitchell,** *W. A.*
Smith, (*Miss*) *E. B.* See **Rule,** *H. G.*
Smith, *E. W.* See **Hodgson,** *H. H.*
Smith, *F.* See **Ault,** *R. G.*, and **Herbert,** *R. W.*
Smith, *J. C.*, 3-chlorophthalic acid, 1533, 1643.
Smith, *J. C.* See also **Carey,** (*Miss*) *P. C.*
Smith, *J. W.*, the dipole moments of some long-chain molecules, 1567.
Smith, *T. B.*, an improved qualitative separation of the iron group in the presence of phosphate, 253.
Snape, *H. L.*, obituary notice of, 473.
Snell, *F. R.* See **Hammick,** *D. L.*
Speakman, *J. C.*, the measurement of surface and interfacial tensions, 1449.
Spence, *R.*, the polymerisation of gaseous formaldehyde, 1193.
Spivey, *E.* See **Dawson,** *H. M.*
Spong, *A. H.*, the properties of the chlorides of sulphur. Part VI. Chemical analysis, 1547.
Spring, *F. S.*, the resinols. Part I. β-Amyrin of *Manilla elemi*, 1345.
Spring, *F. S.* See also **Heilbron,** *I. M.*
Stacey, *M.* See **Ault,** *R. G.*
Stedman, *E.* See **Easson,** *L. H.*
Stephenson, *R. J.* See **Curd,** *F. H.*
Stevens, *T. S.* See **McMeeking,** *W.*, and **Thomson,** *T.*
Stewart, *A.* See **McBain,** *J. W.*
Stewart, (*Miss*) *J.* See **Morgan,** *G. T.*
Stewart, *J. M.* See **Patterson,** *T. S.*
Stuart, *C. M.*, obituary notice of, 469.
Sugasawa, *S.*, an attempted synthesis of primetin, 1621.
Sugasawa, *S.*, and **Yoshikawa,** *H.*, the synthesis of *dl*-homolaudanosoline and its dehydrogenation, 1583.
Sugasawa, *S.* See also **Robinson,** *R.*
Sugden, *S.*, the dielectric constants of some organic liquids, 768.
Sugden, *S.* See also **Bell,** *F.*
Suginome, *H.* See **King,** *F. E.*
Sutton, *L. E.*, **New,** *R. G. A.*, and **Bentley,** *J. B.*, the electric dipole moments of nickel carbonyl, di-iodoacetylene, diethyl sulphide, diethylsulphone, and decalin, 652.
Sutton, *L. E.* See also **Sidgwick,** *N. V.*, and **Taylor,** *T. W. J.*

T.

Taylor, *F. M. H.* See **Kenyon,** *J.*
Taylor, *T. W. J.*, and **Roberts,** *D. C. V.*, the homogeneous catalysis of stereoisomeric change in oximes, 1439.
Taylor, *T. W. J.*, and **Sutton,** *L. E.*, the configurations of the aldoximes, from measurements of electric dipole moment, 63.
Thakur, *R. S.*, condensation products of dicyclic ketones, 1477.
the synthesis of some cyclic Δ^{α}-unsaturated ketones, 1481.
α-methyl-*trans*-hexahydroindene-2-acetic acid and the reduction of Δ^{α}- and Δ^{β}-unsaturated *trans*-hexahydrohydrindene (2) compounds, 1485.
Thomas, *W.* See **Sidgwick,** *N. V.*
Thompson, *C. M.*, obituary notice of, 474.
Thompson, *G.*, the refractive dispersion of eugenol and *iso*eugenol, 557.
Thompson, *H. W.*, and **Blandon,** *E. E.*, the mechanism of bimolecular reactions in solution; the addition of methyl iodide to pyridine in several solvents, 1237.
Thompson, *H. W.*, **Hovde,** *F. L.*, and **Cairns,** *A. C. H.*, the oxidation of carbonyl sulphide, 208.
Thompson, *H. W.*, and **Kelland,** *N. S.*, the oxidation of dimethylzinc, 746.
the oxidation of diethylzinc, 756.
the oxidation of triethylphosphine, 1231.
Thomson, *D. W.* See **Butler,** *J. A. V.*
Thomson, *J. K.*, and **Wilson,** *F. J.*, arylamides of β-arylaminocrotonic acids. Part I., 1262.
Thomson, *T.*, and **Stevens,** *T. S.*, organic compounds of boron, 556.
Todd, *A. R.* See **Raistrick,** *H.*
Tomlinson, (*Miss*) *M. L.* See **Plant,** *S. G. P.*
Tress, *H. J.* See **Drew,** *H. D. K.*
Tucker, *S. H.* See **Macrae,** *T. F.*, and **Nelmes,** (*Miss*) *M. C.*
Turner, *E. E.* See **Lesslie,** (*Miss*) *M. S.*, and **Shaw,** (*Miss*) *F. R.*

U.

Ubbelohde, *A. R. J. P.*, flame phenomena of carbon monoxide, 972.

V.

Van Praagh, *G.*, the detection of adsorbed gas films on heated filaments, 798.
Vaughn, *T. H.*, and **Nieuwland,** *J. A.*, the synthesis and properties of 2-iodo-1-vinylacetylene, 741.

Venkataraman, *K.* See **Chadha,** *T. C.*, **Gulati,** *K. C.*, and **Mahal,** *H. S.*
Vogel, *A. I.*, syntheses of cyclic compounds. Part X. The thermal decomposition of substituted glutaric acids. Part I. ββ-Dimethylglutaric, *cyclo*pentane- and *cyclo*hexane-1:1-diacetic acids, and the mechanism of the reaction, 1028.
Vogel, *A. I.* See also **Jeffery,** *G. H.*
Vosburgh, *W. C.*, **Connell,** (*Miss*) *L. C.*, and **Butler,** *J. A. V.*, the electrostriction produced by salts in some aliphatic alcohols, 933.

W.

Wagstaff, *E. A.* See **Shaw,** *B. D.*
Walker, *J.* See **Hodgson,** *H. H.*
Wallis, *N. J. H.* See **Farmer,** *E. H.*
Walton, *E.* See **Morgan,** *G. T.*
Wardlaw, *W.* See **Drew,** *H. D. K.*, and **Pinkard,** *F. W.*
Warren, *F. L.* See **Farmer,** *E. H.*
Warren, *L. A.* See **Levi,** *A.*
Waters, *R. B.* See **Canter,** *F. W.*, and **Robertson,** *A.*
Waters, *W. A.*, some substitution reactions of 4-aminodiphenylmethane, 1060.
some electrostatic factors which can operate in polar reactions, 1551.
Watkins, *J. S.* See **Chapman,** *D. L.*
Watson, *H. B.*, and **Yates,** *E. D.*, constitutional factors controlling prototropic changes in carbonyl compounds. Part IV. Carbethoxyl and allied groups, 220.
Watson, *H. B.* See also **Nathan,** *W. S.*
Watts, *J.*, obituary notice of, 1652.
Wheat, *W. N.* See **Friend,** *J. N.*
Wheeler, *R. V.* See **Ashmore,** *J. E.*, **Maxwell,** *G. B.*, **Naylor,** *C. A.*, and **Robinson,** *H.*
Whitworth, *C.* See **Campbell,** *C.*
Whytlaw-Gray, *R.* See **Woodhead,** *M.*
Williams, *R. T.* See **Pryde,** *J.*
Wilson, (*Miss*) *B. M.* See **Britton,** *H. T. S.*
Wilson, *C. L.* See **Burton,** *H.*, and **Ingold,** *C. K.*
Wilson, *F. J.* See **Thomson,** *J. K.*
Wiltshire, *E. R.* See **Menzies,** *R. C.*
Wolfenden, *J. H.* See **Cox,** *W. M.*
Wolfrom, *M. L.* See **Hudson,** *H.*
Wood, *C. E.* See **Herbert,** *R. W.*
Woodhead, *D. W.* See **Campbell,** *C.*
Woodhead, *M.*, and **Whytlaw-Gray,** *R.*, a comparison of the densities of carbon monoxide and oxygen, and the atomic weight of carbon, 846.
Wright, *R.* See **MacFarlane,** *W.*
Wyatt, *G. H.* See **Drew,** *H. D. K.*

Y.

Yates, *E. D.* See **Watson,** *H. B.*
Yoshikawa, *H.* See **Sugasawa,** *S.*
Young, *P. C.*, and **Robinson,** *R.*, attempts to prepare derivatives of 1:2-dihydro*iso*quinoline; new interpretation of J. S. Buck's experiments on the synthesis of so-called 1:2-dihydropapaverine, 275.

INDEX OF SUBJECTS, 1933.

A.

Acetaldehyde, effect of, on conductivity of electrolytes in ethyl alcohol, 658.
***O*-Acetamido-sulphoxides,** rearrangement of, 1490.
Acetanilide, *N*-chloro-, photo-change of, in solvents, 240.
Acetic acid, dissociation constant of, 313, 734, 1637.
dl-phenylmethylcarbinyl ester, 177.
Acetic acid, bromo-, and its salts, elimination of bromine from, 1133.
Acetic anhydride, ketonic activity of, 1197.
2-Acetoacetyl-4-methylphenol, 1389.
Aceto-$\beta\beta\gamma$-*tri*bromo-α-hydroxybutylamide, 995.
Aceto-*p*-chlorobenzhydrylamide, 1504.
Aceto-β-chloro-$\beta\gamma$-*di*bromo-α-hydroxybutylamide, 995.
Aceto-$\beta\gamma$-*di*chloro-β-bromo-α-hydroxybutylamide, 995.
Aceto-α-naphthalides, 2- and 4-nitro-, 1205.
Acetone semicarbazone, hydrolysis of, 204.
Acetoneanil. See 2:2:4-Trimethyl-1:2-dihydroquinoline.
Acetophenone, dielectric constant of, 773.
Acetophenone, ω-chloro-, and its derivatives, velocities of prototropic change with, 893.
2:4:5-*tri*hydroxy-, 1074.
ω:2:4-*tri*hydroxy-, and its derivatives, 372.
ω:2:4:6-*tetra*hydroxy-, acetyl and benzoyl derivatives, 368.
Acetophenones, nuclear-substituted, prototropy of, 217.
Acetophenoneoxime, and *p*-chloro-, picryl ethers, 810.
Aceto-*N*-picrylanilide, 810.
7-Acetoxychromeno-(3′:4′:2:3)chromone, 493.
4-Acetoxy-3 : 4-diphenyl-5 : 5-dimethyl-Δ^2-*cyclo*pentenone, 727.
ω-Acetoxy-4-methoxyacetophenone, 3-amino- and 3-nitro-, 26.
2-Acetyl-3:5-dimethoxy-6-methylphenoxyacetic acid, ethyl ester, 444.
4-Acetyl-2:3-dimethyl α-methylglucoside, 738.
4-Acetyldiphenyl, 2-*mono*- and 2:4′-*di*-nitro-, 970.
Acetylene, *di*iodo-, dipole moment of, 652.
***O*-Acetyl*iso*everninaldehyde,** 495.
Acetylmalic anhydride, rotatory dispersion of, 791.
2-Acetyl-4-*O*-methylresorcylaldehyde, azlactone of, 493.
Acid, $C_{19}H_{22}O_4$, and its methyl ester, from reduction of ethyl $\beta\beta'$-dihydroxy-$\beta\beta'$-dianisyladipate, 828.
$C_{20}H_{22}O_6$, and its methyl ester, from reduction of ethyl $\beta\beta'$-dihydroxy-$\beta\beta'$-dianisyladipate, 828.
Acids, influence of iodine on decomposition of, 1147.
aliphatic, halogen-substituted, salts, hydrolysis of, in aqueous solutions, 49.
*mono*basic, dissociation constants of, 731.
organic acid salts of, 1016.
complex, physical chemistry of, 419, 512.
fatty, and their esters, dipole moments of, 1569.
olefinic, 557, 561, 568, 577, 580.
Δ^α- and Δ^β-olefinic, preparation and determination of nitriles of, 612.
organic, dissociation constants of, 1637.
unsaturated, behaviour of surface films of, 338.
addition of hydrogen bromide to, 568.
Acids, Δ^γ-unsaturated, formation of lactones from, 580.
weak, complex formation with, 5, 1543.
Acridone, 1:4-*di*bromo-, 1:4-*di*chloro-, and 4-chloro-1-nitro-, 1372.
Acridones, substituted, reactivity of groups in, 1372.
3-Acylchromones, preparation of, 1381.
***o*-Acyloxyacetophenones,** molecular rearrangement of, 1381.
Address, presidential, 463.
Adipanilamide-*p*-arsonic acid, and its sodium salt, 92.
Adipanilide-*p*-arsonic acid, and its sodium salt, 93.
Adipanilide-*pp*′-diarsonic acid, and its disodium salt, 93.
Adipanilodimethylamide-*p*-arsonic acid, and its sodium salt, 92.
Adipaniloethylamide-*p*-arsonic acid, and its sodium salt, 92.
Adipanilomethylamide-*p*-arsonic acid, and its sodium salt, 92.
Adipanilo-*n*-propylamide-*p*-arsonic acid, and its sodium salt, 92.
Adipic acid, esters of, 91.
Adsorption, irreversible, on charcoal, 842.
Alcohols, reactions of, with selenium dioxide, 391.
aliphatic, free energy of, in aqueous solution, 674.
electrostriction produced by salts in, 933.
n-aliphatic long-chain, 235.
identification of, in dilute aqueous solution, 216.
Aldehydes, aromatic, reaction of, with 2-picoline, 77.
chloro-substituted, reactions of, with chloro-substituted arylhydrazines, 1488.
2-Aldehydo-5-methoxyphenoxyacetic acid, ethyl ester, and its derivatives, 491.
2-Aldehydophenoxyacetic acid, ethyl ester, 492.
Aldoximes, configurations of, from electric dipole moments, 63.
α- and β-Aldoximes, constitution of acetyl derivatives of, 1037.
Aliphatic compounds, higher, 346, 635, 1348.
Alizarin β-cellobioside and hepta-acetyl-β-primeveroside β-gentiobioside, 1168.
Alizarin, 3-bromo-, and its methyl ethers, and 4-bromo-1-hydroxy-, 1-benzoyl derivative, methyl ether, 1517, 1520.
Alkaline-earth chlorides, equilibria of, with mercuric chloride and water, 151.
Alkaloids, cuprichlorides of, 996.
See also Cinchona and Lupin alkaloids.
Alkoxides, quaternary ammonium, decomposition of, 68.
Alkyl halides, kinetics of reactions of, in hydroxylic solvents, 1576.
action of, with potassium hydroxide in ethyl alcohol, 258.
nitrates and nitrites, dipole moments of, 1252.
Alkylanilines, preparation of, 946.
hydrolysis of, 1070.
Allyl alcohol, reaction of, with iodine, 1323.
Allylacetic acid, preparation of, 582.
Altrose, derivatives of, 1076.
Amalgams. See Mercury alloys.
β-Amino-ketones, 839.

α-Amino-nitriles, reduction of, 347.
Amines, tertiary, action of, with triphenylmethyl halides, 75.
Ammines, 517, 520.
Amminodipyridinoplatinous salts, chloro-, and α-hydroxylamino-, 1058.
Amminohydroxyplatinicdisulphamide, salts of, 418.
Amminopyridinoplatinous chloride, α-*di*hydroxylamino-, 1060.
β-Amminotrimethylene*di*aminoplatinous salts, 1340.
Ammonia, activity of, in ammonium chloride solutions, 1435.
action of, on solutions of mercuric salts, 1045.
Ammonium nitrate, equilibrium of, with lead and potassium nitrates, 799.
cobalt phosphate, 858.
magnesium phosphate, 854.
sulphate, equilibria of, with cobalt and nickel sulphates and water, 943.
Ammonium organic compounds, quaternary, thermal decomposition of, 526.
elimination of olefines from, 523.
containing benzhydryl, benzyl and methyl groups, decomposition of, 69.
containing the *tert.*-butylcarbinyl group, 67.
***d*-Amyl alcohol,** optical rotation of, and its derivatives, 376.
***tert.*-Amylaniline,** and its hydrochloride, 949.
***iso*Amylbenzene,** 2:6-*di*hydroxy-. See Tetrahydrotubanol.
β-*n*-Amylglutaric acid, and its derivatives, 961, 962.
β-Amyrene, 1346.
β-Amyrin, and its derivatives, 1345.
Anagyramide, and its derivatives, 507.
Anagyramine, and nitroso-, 508.
Anagyrine, and its *per*chlorate, and *di*bromo-, 507.
Anagyris foetida, alkaloids of, 504.
Analysis, qualitative, of metals of the iron group in presence of phosphate, 253.
Anhydro-*d*-camphorsulphonylacetone, 308.
α-Anhydrotartaric acid, ethyl β′β′β′-trichloro-α′-hydroxyethyl ester, 796.
Aniline, conductivity of mixtures of, with phenol, 1032.
action of, with benzoyl chloride, in carbon tetrachloride and hexane solutions, 1351.
Aniline, 2:4:6-*tri*chloro-, and its derivatives, 142.
2-Anilino-2′-aminodiphenyl, 2-*o*-nitro-, and its diacetyl derivative, 1522.
β-Anilino*iso*butyl methyl ketone, nitroso-, 366.
2-Anilino-6-ethoxylepidine, 1032.
ω-Anilino-α-ketopropaldehyde, nitrophenylhydrazones of, 479.
2-Anilinolepidine, derivatives of, 1031.
2-Anilino-6-methoxylepidine, 1032.
2-Anilinophenyl methyl sulphoxide, 2-*p*-chloro-*o*-nitro-, and 2-*o*-nitro-, acetyl derivative, 1493.
2-*o*-nitro-, 1492.
9-*p*-Anilinophenylcarbazole, *o*-amino-, and *o*-nitro-, and their acetyl derivatives, 1524.
ω-Anilinophenylglyoxal, bromophenylhydrazones of, 481.
2-Anilinophenylmethylsulphone, 2-*p*-chloro-*o*-nitro-, 1493.
2-*o*-nitro-, 1492.
β-Anilinopropionic acid, toluene-*p*-sulphonyl derivative, action of phosphoryl chloride on, 618.
Anionotropy in cyclic systems, 720.
2-Anisidino-6-ethoxylepidines, 1032.
2-Anisidinolepidines, 1032.
2-Anisidino-6-methoxylepidines, 1032.
Anisil, Reformatsky reaction with, 827.
Anisole, *tri*bromo- and *tri*bromonitro-derivatives, 1054.
4-chloro-3:5-*di*nitro-, 827.
Anisoles, nitro-, dipole moments of, 1257.
***p*-Anisyl** β-chloro- and β-hydroxy-ethyl sulphides, 47.
Anisylmethyl *p*-toluenesulphonamide, 278.
Annual General Meeting, 451.
Antimalarials, 1467.
Anthocyanidins, synthesis of, 370.
Anthoxanthins, 268, 368, 610.
Anthracene, equilibrium of, with phenanthrene, 650.
Anthranilic acid, condensation of, with 4-chloroquinaldine and with 2-chlorolepidine, 390.
Anthraquinone, 5- and 8-chloro-1-amino-, and their 1-acetyl derivatives, 448.
Anthraquinones, hydroxy-, reduction products of, 1512.
Anthraquinone-1-carboxylic acids, chloro-, and their derivatives, 448, 449.
Anthraquinone-1:2-dicarboxylic acid, dimethyl ester, 1595.
Anthraquinonetetracarboxylic acids, tetramethyl esters, 1595.
Anthraquinonetricarboxylic acids, trimethyl esters, 1595.
Antimony, determination of, potentiometrically, 1.
***d*-Arabotrimethoxyglutaric acid,** amide and methyl ester, 641.
Aromatic compounds, rearrangements of, 984.
influence of nuclear halogens on side-chain activity in, 1112.
volume effects of alkyl groups in, 977, 980.
containing two or more phenyl groups, substitution in, 968.
***p*-Arsanilic acid.** See Phenylarsinic acid, *p*-amino-.
Arsenic compounds, asymmetric, 1634.
Arsenicals, optically active, 1634.
Arsenobenzene-*NN′*-dimethylenesulphurous acid, 3:3′-*di*amino-4:4′-*di*hydroxy-, sodium salt, 1011.
***p*-Arsinoadipanilic acid,** *p*-*di*chloro-, 92.
Arsinomethylmalonanilic acid, *p*-*di*chloro-, 1066.
Arsonic acids of the fluorenone and fluorenol series, 1454.
***p*-Arsonoadipanilic acid,** and its esters, 92.
***p*-Arsonobenzylidenemalonic acid,** 352.
***p*-Arsonomethylmalonanilic acid,** and its derivatives, 1064.
***p*-Arsonosuccinanilic acid,** 93.
β-Arylaminocrotonic acids, arylamides of, 1262.
Arylazobenzoylacetones, action of bromine on, 480.
Arylhydrazines, chloro-substituted, reactions of, with chloro-substituted aldehydes, 1488.
Ascorbic acid, constitution of, and its salts and derivatives, 1270.
rotatory dispersion of, 1444, 1564.
***d*- and *l*-Ascorbic acids,** synthesis of, 1419.
Aspidinol, and its diacetate, 819.
Atisine, and its perchlorate, 740.
Atomic weight of carbon, 846.
Atomic weights, report of Committee on, 354.
tables of, 203, 361.
Atranorin, and its derivatives, 130.
Azides, organic, dipole moments and structure of, 406.
1:1′-Azonaphthalene, reduction of, 133.
1:1′-Azoxynaphthalene, reduction of, 133.
2:2′-Azoxytoluene, 3:3′-*di*nitro-, 501.

B.

Balance sheets. See Annual General Meeting, 451.
Barium azide, thermal decomposition of, 1397, 1400.
nitrate, solubility of, in water, 501.
equilibrium of, with calcium and potassium nitrates, 236.
Base, $C_5H_7N_2Cl$, from methylglyoxal and formalin, 665.

Batyl alcohol, constitution of, 165.
Beckmann rearrangement, 806.
Benzaldazine, 3:5:3′:5′-*tetra*nitro-, 315.
Benzaldehyde phenylhydrazone, dipole moment of, 1255.
Benzaldehyde, 3:5-*di*nitro-, and its derivatives, 315.
Benzaldehyde-*p*-arsenious oxide, 352.
Benzaldehyde-*p*-*di*chloroarsine, 352.
Benzaldoxime, *p*-nitro-, *O*-methyl ethers of, 65.
1:2-Benzanthracene from tar, 398.
synthesis of, 1012.
derivatives, orientation of, 1592.
acetyl derivatives, 1408.
7-(1:2-Benz)anthranyldimethylcarbinol, 1410.
1:2-Benzanthraquinone, acetyl derivatives, 1409.
Benzanthrone, chloro-derivatives, constitution of, 444.
Benzdioxin, 8-bromo-6-nitro-, 6-chloro-, 8-chloro-6-nitro-, and 6-iodo-, 700.
Benzene nucleus, formation of rings attached to the *m*-position in, 1586.
vapour pressure and refractivity of mixtures of, with benzyl alcohol, *p*-dichlorobenzene, nitrobenzene and phenol, 1413.
and chloro-, and nitro-, dielectric constants of, 773.
emulsions containing, 1214.
Benzene, nitro-, f.p. of solutions of, in benzene and *cyclo*hexane, 281.
viscosity of, 118.
nitration of, 113.
nitro- and *n*-*di*nitro-, equilibria between, 669.
Benzeneazoacetic acid, 2-*mono*- and 2:6-*di*-bromo-4-nitro-, and nitro-, ethyl esters, 476.
Benzeneazoacetoacetic acid, *mono*- and *di*-chloro-nitro-, and *p*-nitro-, ethyl esters, 1145.
nitro-, esters, action of bromine on, 475.
action of chlorine on, 1143.
Benzeneazobenzoylacetone, and 2:4-*di*- and 2:4:6-*tri*-bromo-, and their acetyl derivatives, 480.
Benzeneazobenzoylacetones, nitro-, action of halogens on, 1624.
o- and *p*-nitro-, 1625.
Benzeneazo-*p*-bromoacetoacetic acid, 2-*mono*- and 2:6-*di*-bromo-4-nitro-, and nitro-, ethyl esters, 477.
mono- and *di*-chloronitro-, ethyl esters, 1146.
Benzeneazo-γγ-*di*bromoacetoacetic acid, 2-*mono*- and 2:6-*di*-bromo-4-nitro-, and nitro-, ethyl esters, 478.
Benzeneazo-γ-chloroacetoacetic acid, *mono*- and *di*-chloronitro-, and nitro-, ethyl esters, 1146.
Benzeneazo-βγ-*di*chloro-Δ^{α}-butylene, 2:5-*di*chloro-, 1489.
Benzeneazo-ββ-*di*chloroethylene, 1490.
Benzenesulphonic acid, *m*-nitro-, *mono*- and *di*-nitro-naphthyl esters, 287.
Benzenesulphon-nitrotoluidides, 1290.
8:9-Benz-$\Delta^{8:9}$-homogranatene, derivatives of, 553.
ψ-8:9-Benz-$\Delta^{8:9}$-homogranaten-3-ol, and its benzoyl derivative, and its salts, 555.
8:9-Benz-$\Delta^{8:9}$-homogranaten-3-one, and its salts, 554.
4:5-Benzhydrindene, 1111.
4:5-Benz-3-hydrindone, 1111.
Benzhydrylamine, *p*-chloro-, and its salts, 1504.
Benzhydrylbenzyldimethylammonium salts, 74.
Benzhydryldibenzylamine, and its salts, 75.
Benzhydryldimethylamine, and its picrate, 73.
Benzhydryldimethylammonium bromide, 75.
Benzhydryldimethylethylammonium salts, 73.
Benzhydrylidenebenzhydrylamine, 1502.
Benzhydrylidene-α-phenylethylamine, *p*-chloro-, 1502.
Benzidine, 3-bromo-2′-nitro-, 1590.
Benzidine conversion, 984.
α- and β-Benzilmonoximes, quantitative analysis of mixtures of, 1439.
Benz-2:4:6-*tri*nitro-*m*-tolylanilide, 811.
Benz-2:4:6-*tri*nitro-*m*-tolyl-*p*-chloroanilide, *p*-chloro-, 811.
Benzo-ββγ-*tri*bromo-α-hydroxybutylamide, 995.
Benzo-β-chloro-βγ-*di*bromo-α-hydroxybutylamide, 995.
Benzo-βγ-*di*chloro-β-bromo-α-hydroxybutylamide, 995.
4:5-Benzohydrindene, 1085.
Benzoic acid, dissociation constant of, 734.
Benzoic acid, 3-amino-, 5-amidosulphonyl derivative, 3-nitro-, 5-amidosulphonyl derivative, and its amide and 5-chlorosulphonyl derivative, and its chloride, 1373.
o-bromo-, *o*-bromophenyl ester, 1402.
p-mono- and 3:5-*di*-nitro-, α-ethylcrotyl esters, 1498.
menthyl esters, 172.
Benzonaphtha*spiro*pyrans, colour of, 430.
Benzonitrile, dielectric constant of, 773.
Benzophenone, thio-, dipole moment of, 90.
Benzophenoneoxime, benzoyl, *o*-nitrobenzoyl, and 2:4:6-*tri*nitro-*m*-tolyl esters, and *p*-chloro-, picryl ethers, 809.
Benzophenoneoximes, *p*-nitro-, *O*-methyl ethers of, 65.
α-Benzopyrones, production of, 1263.
Benzoyl chloride, action of, with aniline in carbon tetrachloride and hexane solutions, 1351.
Benzoylacetone, condensation of, with salicylaldehyde, 1197.
beryllium compound, 1346.
3-Benzoyl-1-(2′:4′-*di*- and 2′:4′:6′-*tri*-bromophenyl)-pyrazoles, 5-bromo-4-hydroxy- and 4-hydroxy-, and their acetyl derivatives, 482.
ε-Benzoylhexoic acid, 5-bromo- and 5-chloro-2-hydroxy-, and *o*-hydroxy-, 234.
2-Benzoyl-1-hydrindone, 612.
3-Benzoyl-1-nitrophenylpyrazoles, 5-bromo-4-hydroxy-, 5-chloro-4-hydroxy-, and 4-hydroxy-, 1626.
3-Benzoyl-1-nitrophenyl-4-pyrazolones, 5:5-*di*chloro-, 1626.
7-Benzoyloxy-3-benzoylflavone, 1388.
7-Benzoyloxyflavone, 1385.
Benzoylphenacylcarbinol, and its acetate, 625.
δ-Benzoylvaleric acid, 5-chloro-2-hydroxy-, 1588.
Benz-*N*-picrylanilide, *p*-chloro-, 810.
Benz-*N*-picryl-*p*-chloroanilide, and *p*-chloro-, 810.
1:2-Benzpyrene, and nitro-, 403.
4:5-Benzpyrene, and its picrate, 405.
Benzpyrenes, and their picrates, 397.
1:2-Benzpyrenequinone, 403.
***iso*Benzpyrylium** ferrichloride, 555.
9-*p*-1″:2″:3″-Benztriazolylphenylcarbazole, 1524.
Benzyl alcohol, vapour pressure and refractivity of mixtures of, with benzene, 1413.
Benzyl hyponitrite, dielectric polarisation of benzene solutions of, 309.
β-Benzylamino*iso*butyl methyl ketone, hydrochloride of, and nitroso-, 366.
Benzyl-*tert.*-butylcarbinyldimethylammonium bromide, 68.
2-Benzylchromone, 1461.
Benzyldiallylamine, 66.
Benzyldimethylethylarsonium picrate, 100.
Benzyl Δ^{1}-*cyclo*hexenyl ketone, and its semicarbazone, 1464.
Benzylideneacetone, β-amino-ketones and pyrazolines from, 839.
Benzylideneaniline, 3′:5′-*di*nitro-, 315.
α-Benzylidene-β-3:4-dimethoxybenzoylpropionic acid, α-2-nitro-, and its lactone, 1088.
Benzylideneharman, 615.
4:6-Benzylidenemethylglucosides, 696.
4:6-Benzylidene α-methylglucoside, 2:3-di-*p*-nitrobenzoyl derivative, 1079.
Benzylidene-α-phenylethylamine, 1502.
Benzylidenetartaric acid, esters, rotatory dispersion of, 789.

Benzylidene-*p*-toluidine, 3′:5′-*di*nitro-, 315.
Benzylmethylamine picrate, 349.
3-Benzyl-2-methylchromone, 7-hydroxy-, 1462.
10-Benzyl-2-methyl-5:10-dihydrophenarsazine, 1636.
10-Benzyl-2-methyl-10-*n*-propyl-5:10-dihydrophenarsazonium salts, 1636.
6-Benzyloxy-2:3-dimethoxyacetophenone, 1623.
6-Benzyloxy-7-methoxy-1-(3′-benzoyloxy-4′-methoxybenzyl)-3:4-dihydro*iso*quinoline, and its derivatives, 280.
6-Benzyloxy-7-methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-2-methyl-1:2:3:4-tetrahydro*iso*quinoline, 281.
Benzyltriethylarsonium salts, 100.
Benzyltrimethylammonium hydroxide, and its salts, 72.
Benzyltrimethylarsonium picrate, 99.
Beryllium organic compounds:—
Beryllium benzoylacetonate, 1546.
Betanin, and related anthocyanins, 25.
Bile acids, structure of, and sterols, 626.
action of selenium dioxide on, 387.
compounds related to, 811, 815, 1098.
Bindschedler's-green iodide hydriodide, 253.
Biscamphor-10-mercury, 825.
Bis-*p*-carbethoxyphenyl *di*sulphide, 1507.
7:7′-Bis-(5-chloro-2-methoxyphenylthio)stilbene, 1529.
Bis-(*βββ*-*tri*chloro-*α*-*N*′-nitrophenylcarbamidoethyl) ethers, and their acetyl derivatives, 31.
Bis-(*βββ*-*tri*chloro-*α*-*N*′-tolylcarbamidoethyl) ethers, and their derivatives, 31.
Bisdecalone, 1480.
4:4′-Bisdiethylamino-2′-acetoxydiphenylphthalide, 1268.
4:4′-Bisdiethylamino-2′-acetoxy-2″-ethoxydiphenylphthalide, 1268.
4′:4″-Bisdiethylamino-2′-acetoxy-2″-methoxydiphenylphthalide, 1268.
4:4′-Bisdiethylamino-2:2′-dimethoxytriphenylcarbinol, preparation of, 1269.
4:4′-Bisdiethylamino-2:2′-dimethoxytriphenylmethane, 1270.
10:10′-Bis-5:10-dihydrophenarsazinyl, action of pentamethylene dibromide on, 1637.
2:2′-Bisdimethylaminodiphenyl hydriodide and chloroplatinate, 139.
Bisethylene*di*aminoplatinous chloride, crystal structure of, 1092.
Bisethylsulphonylethylthiomethane, 308.
6:7:3′:4′-Bismethylenedioxy-2-phenylnaphthalene, 1531.
Bis-2-*o*-nitrophenylaminophenyl *di*sulphide, 1493.
Bisnitroso-compounds, aromatic, 671.
***aa*′-Bisphenylsulphonylpropane**, 309.
***aa*′-Bisphenylthiopropane**, 309.
***l*-*n*-** and ***n*-*iso*-Borneols**, depression of melting points of, by various substances, 93.
Boromalic acid, salts, rotatory dispersion of, 951.
Boron organic compounds, 556.
Borotartaric acid, salts, rotatory dispersion of, 951.
Brucine, 486.
***n*-Butaldehyde**, *β*-bromo-, trimeride of, 818.
aaβ-*tri*bromo-, *α*-chloro-*aβ*-*di*bromo-, and *aβ*-*di*chloro-2-bromo-, 994.
aaββ-*tetra*chloro-, 2:5-*di*chloro-*N*-acetylphenylhydrazone, 1489.
Butane, ignition of mixtures of, with air, 1240.
***cyclo*Butane-1:2-dicarboxylic acid**, 1:2-*di*bromo-, ethyl ester, 1632.
***n*-Butane-*aaγγδ*-pentacarboxylic acid**, ethyl ester, 814.
***cyclo*Butane-1:1:2:2-tetracarboxylic acid**, 3-hydroxy-, 1632.
***n*-Butanetricarboxylic acid**, methyl ester, 818.
Butan-2-one, 3-chloro-, and its semicarbazone, 717.
Δ^1-*cyclo*Butene-1:2-dicarboxylic acid, ethyl ester, 1632.
Δ^{α}- and **Δ^{β}-*n*-Butenoic acids**, lactones from, 577.
***m*-*n*-Butoxyaniline**, 661.
3-*n*-Butoxydimethylaniline, and 4-nitroso-, 661.
3-*n*-Butoxyphenols, nitro-, and nitroso-, 661.
***n*-Butyl alcohol**, partial vapour pressure of, in aqueous solutions, 674.
***n*-Butyl** hyponitrite, parachor of, 309.
***d*-*n*-Butyl** *α*-phenylethyl ether, 178.
***tert.*-Butylaniline**, preparation and derivatives of, 948.
***tert.*-Butylcarbinyldimethylamine**, and its salts, 68.
***tert.*-Butylcarbinyltrimethylammonium** iodide, 68.
Butylene, ignition of mixtures of, with air, 1240.
Butylurea, *ββγ*-*tri*bromo-*α*-hydroxy-, *β*-chloro-*βγ*-*di*bromo-*α*-hydroxy-, and *βγ*-*di*chloro-*β*-bromo-*α*-hydroxy-, 995.
Butyric acid, *α*-chloro-*aβ*-*di*bromo-, 994.
***iso*Butyric acid**, *β*-chloro-*α*-hydroxy-, synthesis of, 803.

C.

Cadalene, synthesis of, 22.
Cæsium organic compounds:—
Cæsium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
Calcium carbonate, equilibrium of, with sodium carbonate and water, 1160.
nitrate, equilibrium of, with barium and potassium nitrates, 236.
oxide, equilibrium of, with magnesium chloride and water, 701.
sulphate, hydrates of, 638.
Camphor, mercury derivatives of, 823.
Camphor, 10-bromo-, 10-iodo-, and their oximes, and 10-thiol-, 825.
***d*-Camphoroxime**, depression of the melting point of, by various substances, 93.
***l*-Camphor-*π*-sulphonic acid**, *α*-bromo-, *l*-menthyl ester, 173.
Camphor-10-sulphonic acid, *l*-*neo*menthyl esters, 169.
Camphor-10-sulphonic acids, *d*-*iso*menthyl esters, 173.
Cancer, production of, by hydrocarbon from coal tar, 395.
Cannabinol, structure of, 1400.
Cannabis indica, resin from, 1400.
7-Carbamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1457.
7-Carbamylmethoxyfluorenone-2-arsonic acid, sodium salt, 1456.
9-*O*-Carbamylmethylfluorenol-7-glycineamide-2-arsonic acid, and its disodium salt, 1457.
Carbanilide, and thio-, dipole moments of, 90.
3-Carbethoxy-1-(2′-chloro-4′-nitrophenyl)pyrazole, 4-hydroxy-, 1146.
3-Carbethoxy-1-(2′:6′-*di*chloro-4′-nitrophenyl)pyrazole, 4-hydroxy-, 1146.
3-Carbethoxy-1-(2′-chloro-4′-nitrophenyl)-4-pyrazolone, 5:5-*di*chloro-, 1391.
3-Carbethoxy-4:5-diketo-1-*p*-nitrophenylpyrazolone hydrate, 1393.
3-Carbethoxy-Δ^2-*cyclo*hexeneoxalic acid, and its ethyl esters, 1631.
3-Carbethoxy-4-hydroxy-1-(2′-chloro-4′-nitrophenyl)-pyrazole, 5-chloro-, 1391.
3-Carbethoxy-4-hydroxy-1-(2′:6′-*di*chloro-4′-nitrophenyl)pyrazole, 5-chloro-, 1392.
3-Carbethoxy-4-hydroxy-1-nitrophenylpyrazoles, 4-chloro-, 1391.
3-Carbethoxy-4-keto*iso*oxazolone 4-*p*-nitrophenylhydrazone, 1392.
3-Carbethoxy-1-(nitrophenyl)pyrazoles, 5-bromo-, 5-bromo-4-hydroxy- and 4-hydroxy-, and their derivatives, 479.

3-Carbethoxy-1-*p*-nitrophenyl-5-pyrazolone,4-oximino-, 1393.
3-Carbethoxy-1-nitrophenyl-4-pyrazolones, 5:5-*di*-chloro-, 1391.
***p*-Carbethoxyphenylsulphonylacetone,** and its sodium salt, 1508.
***α*-*p*-Carbethoxyphenylsulphonyl-*α*-benzylacetone,** 1508.
***α*-*p*-Carbethoxyphenylsulphonylethyl methyl ketone,** 1509.
***α*-*p*-Carbethoxyphenylsulphonyl-*α*-*p*-tolylthioacetone,** 1508.
***p*-Carbethoxyphenylsulphonyl-*p*-tolylthiomethane,** 1508.
***p*-Carbethoxyphenylthioacetone,** 1507.
Carbethoxysalicylaldehyde diphenylacetal, 498.
Carbohydrates, optical rotatory dispersion of, 1564.
Carbomethoxy*iso*everninic acid, and its derivatives, 494.
δ-Carbomethoxyvaleryl chloride, 91.
Carbon, atomic weight of, 846.
Carbon *mon*oxide, density of, and of oxygen, 846.
flame phenomena of, 972.
velocity of detonation of mixtures of, with oxygen, 59.
action of, with nitric oxide, 56.
*di*oxide, compressibility of, 621.
Carbonyl compounds, prototropy in, 217, 220, 890.
sulphide, oxidation of, 145, 208.
1-*o*-Carboxybenzylpyrene, 403.
cis- and *trans-dl*-**3-Carboxy-1:1-dimethyl*cyclo*propane-2-propionic acids,** resolution of, 1223.
2-Carboxy*cyclo*hexanone-2-*β*-propionic acid, ethyl ester, 1015.
Carboxyl groups, orienting influence of, in olefinic compounds, 800.
***α*-Carboxymethoxypropionyl** chloride, 1066.
2-*o*-Carboxyphenylaminolepidine, and its hydrochloride, 391.
4-*o*-Carboxyphenylaminoquinaldine, 391.
***α*-*p*-Carboxyphenylsulphonyl-*α*-methylsulphonylethane,** and its salts, 1510.
***α*-*p*-Carboxyphenylsulphonyl-*α*-methylthioethane,** 1510.
***α*-*p*-Carboxyphenylsulphonyl-*β*-phenylethane,** and its ethyl ester, 1508.
***p*-Carboxyphenylsulphonyl-*p*-tolylsulphonylbenzylmethane,** and its salts and ethyl ester, 1508.
***α*-*p*-Carboxyphenylsulphonyl-*α*-*p*-tolylsulphonylethane,** and its ethyl ester, 1510.
***p*-Carboxyphenylsulphonyl-*p*-tolylsulphonylmethane,** and its ethyl ester, 1508.
***p*-Carboxyphenylsulphonyl-*p*-tolylsulphonylphenylthiomethane,** 1509.
***α*-*p*-Carboxyphenylsulphonyl-*α*-*p*-tolylthioethane,** resolution of, 1506.
***dl*-*α*-*p*-Carboxyphenylsulphonyl-*α*-*p*-tolylthioethane,** and its salts and derivatives, 1509.
***p*-Carboxyphenylsulphonyl-*p*-tolylthiomethane,** and its sodium salt, 1508.
trans-dl-**Caronic acid,** resolution of, 1223.
Carvacrol, derivatives of, 979.
Catalysis, energetics of, 502.
homogeneous, of stereoisomerism in oximes, 1439.
Catalytic hydrogenation of unsaturated compounds, 687.
Catechol. See Pyrocatechol.
Chalkone, nitration of, 344.
Charcoal, chemisorption on, 842.
Chemical Society, present position and future of, 463.
Chimyl alcohol, constitution of, from surface films, 164.
Chloral, condensation of, with nitrophenyl- and tolyl-ureas, 30.
Chlorine, photochemical combination of, with hydrogen in presence of oxygen, 743.
Chlorine, reaction of, with hydriodic acid, 1315.
Hydrochloric acid, dielectric polarisation of, in solution, 1541.
phosphorus pentoxide as drying agent for, 1533.
Hypochlorous acid, dissociation constant of, 1200.
Chloroaquotetramminochromic chloride. See under Chromium bases.
Chloroaquotetramminocobaltic picrate, 519.
Chlorosulphonic acid, action of, on *p*-cresol and phenol at low temperatures, 337.
Cholesterol, structure of, 632.
Chromium bases :—
Chloroaquotetramminochromic chloride, preparation of, 521.
Dihydroxotetramminochromic hydroxide, and its derivatives, 520.
Hydroxoaquotetramminochromic salts, 521.
Nitratoaquotetramminochromic nitrate, 522.
Chromium salts :—
Chromic chloride, co-ordination compounds of, 796.
Chromones, synthesis of, 942, 1073, 1459.
Chrysene, synthesis of, 1012.
derivatives of, 607.
Cinchene cuprichloride, 999.
Cinchona alkaloids, precipitation of, by cupric chloride, 996.
Cinchonidine cuprichloride, 999.
Cinchonine cuprichloride, 999.
Cinnamic acid chlorohydrin, constitution of, 964.
Cinnamic acid, 3:5-*di*nitro-2-hydroxy-*α*-amino-, *α*-benzoyl derivative, 487.
cis-**Cinnamic acid,** three forms of, 1453.
Cinnamonitrile-*p*-arsonic acid, 352.
6-Cinnamoyl-*ψ*-indoxyl*spirocyclo*pentane, 299.
7-Cinnamoyloxy-2-styrylchromone, 1388.
Coal, composition of, 1405.
Coal tar. See under Tar.
Cobalt bases :—
Dihydroxotetramminocobaltic hydroxide, action of acids on, 517.
Nitratoaquotetramminocobaltic nitrate hemihydrate, 519.
Cobalt ammonium phosphate, 858.
sulphate, equilibria of, with ammonium and sodium sulphates and water, 943.
Colouring matters. See Garcinin and Robinetin.
Combustion of hydrocarbons, 1599.
Compounds, conjugated, properties of, 960, 1297, 1302.
cyclic. See Cyclic compounds.
spiro-**Compounds,** ring changes in, 352.
Compressibility of gases at low pressures, 619.
Co-ordination, covalency and chelation, 1290.
Copper :—
Cupric chloride, equilibrium of, with mercuric chloride and water, 151.
Copper determination :—
determination of, with salicylaldoxime, 314.
and its separation from nickel, 895.
Covalency, co-ordination and chelation, 1290.
***o*-Cresol,** 4:5-*di*nitro-, and its methyl ether, 1166.
***m*-Cresol,** conductivity of mixtures of, with phenol, 1032.
***p*-Cresol,** action of chlorosulphonic acid on, at low temperature, 337.
***p*-Cresol,** 2:6-*di*nitro-, and its methyl ether, 440.
***o*-Cresol-4-sulphonic acid,** barium salt, 1377.
Crotonaldehyde, *αβ*-*di*chloro-, chlorophenylhydrazones of, and their acetyl derivatives, 1489.
***γ*-*p*-Cumyl-*n*-butyric acid,** 436.
Cyanogen halides, reactions of, with hydriodic acid, 1318.
Hydrocyanic acid, potassium salt, action of, on platinic chloride, 1429.
Cyanides, complex alkylated, 101.

Cyclic compounds, structure of, by selenium dehydrogenation, 352.
synthesis of, 1028.
p-**Cymenecarboxylic acids,** 983.
β-**2-Cymyl*iso*butyric acid,** 129.
(2-Cymylmethyl)methylmalonic acid, and its ethyl ester, 129.
β-**2-Cymylpropionic acid,** 129.
Cytisine, and its *per*chlorate, 507.

D.

Daidzein, synthesis of, 274.
Decahydronaphthalene. See Decalin.
Decalin, dipole moment of, 652.
trans-*β*-**Decalone,** chloro-, 1479.
Dehydrocadalene, and its dimeride, 24.
Dehydrodihydrorotenonic acid, structure of, and its acetyl derivative, 1163.
Dehydroergosterol 3:5-*di*nitrobenzoate, 389.
Dehydro-2-naphthol 1-*di*sulphide, bromo-derivatives, 788.
Diacetanilide, 2:4:6-*tri*chloro-, 143.
2:4-Diacetoxy-6-methylbenzylidene *di*acetate, 495.
Diacetylresorcylaldehyde, azlactone of, 493.
4:4′-Dialdehydoarsenobenzene, 352.
Diallyl hydrobromides, 817.
Diamminocupric trisdiphenol, 1230.
Diamminopyridinoplatinous chloride, *α*-chloro-, 1058.
Diamminotrimethylene*di*aminoplatinic salts, 1340.
β-**Diamminotrimethylene*di*aminoplatinous** salts, 1340.
ββ′-**Dianisyladipic acid,** *ββ′*-*di*hydroxy-, and its esters, 828.
βγ-**Dianisyladipic-a acid,** and its esters, 609.
s-**Di-*p*-anisylurea,** 1263.
1:1′-Dianthraquinonyl, 3:3′:4:4′-*tetra*hydroxy-, 1517.
Diaquorhodiumdisulphamide, salts of, 418.
αγ-**Diarylmethyleneazomethines,** influence of polynuclear aryl groups on mobility and equilibria in, 37.
ω-**Diazo-*p*-acetylanisole,** 375.
Diazo-compounds, aliphatic, dipole moments and structure of, 406.
Diazomethane, preparation of, 363.
absorption spectrum and photochemical decomposition of, 119.
ω-**Diazo-3-nitro-4-methoxyacetophenone,** 26.
Diazosulphonates from *β*-naphthol-1-sulphonic acid, reaction of, 1067.
2-Diazotoluene 3-sulphide, 297.
ω-**Diazo-3:4:5-trimethoxyacetophenone,** 375.
1:2:5:6-Dibenz-3:4-anthraquinone, 1596.
1:2:5:6-Dibenz-3:4-anthraquinoneazine, 1596.
1:2:5:6-Dibenzanthraquinone-4:8-dicarboxylic acid, 1597.
Di(benzdioxinyl)ketone, *di*-6-nitro-, 700.
Di(benzdioxinyl)methane, *di*-6-nitro-, 700.
Dibenzenesulphonanilide, *di*-*m*-nitro-, 1290.
Dibenzenesulphon-nitrotoluidides, *di*-*m*-nitro-, 1290.
Dibenzenesulphontoluidides, *di*-*m*-nitro-, 1290.
3:4:5:6-Dibenzphenanthra-1:2:7:8-diquinone, 1597.
3:4:5:6-Dibenzphenanthra-1:2:7:8-diquinonediazine, 1597.
3:4:5:6-Dibenzphenanthrene, 1592.
2:2′-Di-1″:2″:3″-benztriazolyldiphenyl, 1522.
Dibenzyldiallylammonium bromide, 67.
hydroxide, formation and decomposition of, 66.
Dibenzylmethylammonium salts, 75.
1:1′-Dicarbazyl, synthesis of, 1520.
3:9′-Dicarbazyl, synthesis of, and its 9-acetyl derivative, 1523.
Dicarbazyls, 1520, 1523.
NN′-**Dicarbethoxybenzidine,** 3-bromo-2′-nitro-, and 2-nitro-, 1590.
s-**Di(dimethylphenyl)ureas,** 1263.
Dielectric constants of organic liquids, 768.
polarisation. See under Polarisation.
5:7-Diethoxy-2:8-dimethyl-3-ethylchromone, 821.
2:2′-Diethoxyhydrazobenzene, benzidine conversion of, 986.
Diethoxy-3-methyl-*n*-butyrophenones, hydroxy-, 821.
4:6-Diethoxytoluene, 2-nitro-, 821.
4:6-Diethoxy-*o*-toluidine, and its acetyl derivative, 821.
Diethyl sulphide, dipole moment of, 652.
4′-Diethylamino-2′-acetoxyphenyl-4″-dimethylamino-*α*-naphthylphthalide, 1268.
1-Diethylamino-5-furyl-*Δ*^{4}-penten-3-one hydrochloride, 840.
4′-Diethylamino-2′-hydroxy-*o*-benzoylbenzoic acid, and its methyl ester, 1267.
α-**Diethylamino-*β*-(2:4-*di*nitrophenyl)ethane** picrate, 302.
2:2′-Diethyl-3:4:3′:4′-dibenzthiotricarbocyanine iodide, 192.
2:2′-Diethyl-5:6:5′:6′-dibenzthiotricarbocyanine iodide, 191.
10:10-Diethyl-5:10-dihydrophenarsazonium bromide and iodide, 1637.
Diethylene *di*oxide (*dioxan*), dipole moment of, 90.
Diethylene *di*oxide, 2:3-*di*chloro-, 1598.
Diethyl-*n*-propylsulphonium salts, 992.
2:2′-Diethylselenocarbocyanine iodide, absorption spectrum of, 216.
2:2′-Diethylselenotricarbocyanine iodide, 192.
Diethylsulphone, dipole moment of, 652.
Diethylthallium diphenol, 1229.
3:3′-Diethylthiazolinotricarbocyanine iodide, 192.
2:2′-Diethylthiotricarbocyanine iodide, 191.
s-**Diethylthiourea,** dipole moment of, 90.
1:1′-Diethyl-2:2′-tricarbocyanine iodide, 193.
O-**Diethylusneol,** and its picrate, 716.
Diethylzinc. See under Zinc diethyl.
Di*cyclo*hexylphenylethylsilicane, 1043.
Di*cyclo*hexylphenylsilicane, 1042.
9:10-Dihydro-1:2:5:6-dibenzanthracene, 1596.
Dihydro-*ββ*-dimethylanhydroacetonebenzil, 727.
Dihydroergosterol, action of selenium dioxide on, 387.
3:5-*di*nitrobenzoate, 389.
oxide, and its salts, 389.
Dihydromethylanagyrine, 508.
Δ$^{\alpha}$-**Dihydromuconic acid,** ethyl ester, 890.
1:2-Dihydropapaverine, 275, 740.
2:3-Dihydropentachromone, and 6-amino-, and 6-nitro-, 235.
2:3-Dihydropentachromone, 6-chloro-, 1588.
Dihydroquinene cuprichloride, 999.
1:2-Dihydro*iso*quinoline, preparation of derivatives of, 275.
Dihydroxotetramminochromic hydroxide. See under Chromium bases.
Dihydroxotetramminocobaltic hydroxide. See under Cobalt bases.
Di-(4-ketobenzdioxinyl) ketone, *di*-6-nitro-, 700.
2:11-Diketo-5:14-dimethoxyhexahydrochrysene-a, 609.
Diketohexahydrochrysenes, 608.
4:5-Diketo-1-(4′-nitrophenyl)pyrazolone-3-carboxylic acid, ethyl ester, 4-(4″-nitrophenyl hydrazone), 1392.
Diketosuccinic acid, esters, nitrophenyl-hydrazones and -osazones of, 1392.
6:7-Dimethoxy-3-acetyl-2-methylquinoline-4-propionic acid, 1089.
6′:7′-Dimethoxy-8-*iso*amylchromenochromone, 7-hydroxy-. See Dehydrodihydrorotenonic acid.
2:3-Dimethoxybenzoic acid, 6-bromo-, and its anilide, and 6-hydroxy-, benzyl derivative, and 6-iodo-, 1622.
6:7-Dimethoxy-3-benzoyl-2-phenylquinoline-4-propionic acid, 1089.

β-3:4-Dimethoxybenzoylpropionic acid, and its lactone, 1088.
β-3:4-Dimethoxybenzoylpropionic acid, 6-amino-, and 6-nitro-, and their derivatives, 1089.
β-4:5-Dimethoxybenzoylpropionic acid, 2-amino-, and 2-nitro-, 1467.
3′:5′-Dimethoxy-4′-benzyloxyflavone, 5:7-*di*hydroxy-, 942.
3:4-Dimethoxycinnamic acid, ethyl ester, and its dibromide, 1465.
3:3′-Dimethoxy-1:1′-dianthraquinonyl,4:4′-*di*hydroxy-, and its dibenzoyl derivative, 1517.
6:7-Dimethoxy-1-β-3′:4′-dimethoxyphenylethyl-3:4-dihydro*iso*quinoline, 1584.
4:6-Dimethoxy-2:3-dimethylcoumarone, and its picrate, 717.
5:7-Dimethoxy-2:8-dimethyl-3-ethylchromone, 823.
αβ-Dimethoxyethane-ααββ-tetracarboxylic acid, methyl ester, 643.
2:6-Dimethoxy-4-ethoxy-3-methylbenzoic acid, methyl ester, 719.
3′:4′-Dimethoxyflavone, 7-hydroxy-, 1387.
3′:5′-Dimethoxyflavone, 5:7:4′-*tri*hydroxy-, 942.
7:4-Dimethoxy*iso*flavone-2-carboxylic acid, 275.
Dimethoxyflavylium *per*chlorates, aminohydroxy-, 26.
7:4′-Dimethoxyflavylium chloride, 3-chloro-2′-hydroxy-, 290.
3:3′-Dimethoxyhelianthrone, 4:4′-*di*hydroxy-, and its diacetyl derivative, 1517.
5:14-Dimethoxyhexahydrochrysene-a, 610.
2:2′-Dimethoxyhydrazobenzene, benzidine conversion of, 986.
5:6-Dimethoxy-1-hydrindone-2-glyoxylic acid, and its ethyl ester, 611.
Dimethoxymaleic acid, methyl ester, 1289.
3:4-Dimethoxymandelonitrile, and its imino-ethyl ester hydrochloride, 1466.
4:6-Dimethoxy-3-methylacetophenone, 2-hydroxy-, 443.
4:6-Dimethoxy-3-methylbenzaldehyde, 2-hydroxy-, and its acetate, 442.
2:4-Dimethoxy-6-methylbenzanilide, 494.
4:6-Dimethoxy-3-methylbenzoic acid, 2-hydroxy-, and its methyl ester, 442.
4:6-Dimethoxy-3-methyl-*n*-butyrophenone, 2-hydroxy-, and its acetate, 823.
4:6-Dimethoxy-3-methylchalkone, 2:4′-*di*hydroxy-, 444.
7:4′-Dimethoxy-2-methyl*iso*flavone, 274.
6:7-Dimethoxy-2-methylnaphthalene, 86.
2:6-Dimethoxy-4-methylquinoline, 301.
5:6-Dimethoxynaphtha(1:2:4′:3′)coumarin, 4:7′-*di*hydroxy-, diacetyl derivative, 1471.
4:5-Dimethoxyphenoxyacetic acid, and its methyl ester, 2-acetonitriles, 1164.
4:5-Dimethoxyphenoxyacetic acid-(2′:4′-*di*hydroxy-3′-*iso*amyl)acetophenone. See Tetrahydroderrisic acid.
4:5-Dimethoxyphenoxyacetic acid-2-resacetophenone. See Tephrosic acid.
3:4-Dimethoxyphenylacetylene, 1466.
β-3:4-Dimethoxyphenylethyl alcohol, and its derivatives, 1466.
α-3:4-Dimethoxyphenyl-γ-2-hydroxy-4:6-dimethoxyphenyl-*n*-propyl alcohol, 290.
α-2:4-Dimethoxyphenyl-γ-*o*-hydroxyphenyl-*n*-propyl alcohol, 290.
7:8-Dimethoxy-3-phenyl-4-(4′-methoxystyryl)-coumarin, 617.
7:8-Dimethoxy-3-phenyl-4-(3′:4′-methylenedioxystyryl)coumarin, 617.
3:4-Dimethoxyphenylpropiolic acid, 1466.
β-3:4-Dimethoxyphenylpropiono-β-3′:4′-dimethoxyphenylethylamide, 1584.
2:4-Dimethoxy-β-phenylpropiophenone, 2′-hydroxy-, 289.
6:7-Dimethoxy-2-phenylquinoline-4-propionic acid, 1089.
β-6:7-Dimethoxyquinaldyl(4)-ethylamine *di*hydrochloride, 1467.
β-6:7-Dimethoxyquinaldyl(4)-ethylurethane, 1468.
β-6:7-Dimethoxyquinaldyl(4)-propionic acid, and its derivatives, 1468.
6:7-Dimethoxyquinoline-4-propionic acid, 1089.
7:4-Dimethoxy-2-styryl*iso*flavone, 275.
3:4″-Dimethoxy-*pp*-tribenzaldehyde, 141.
3:4″-Dimethoxy-*pp*-tribenzoic acid, and its chloride, 142.
4:6-Dimethoxy-2:3:7-trimethylcoumarone, and its picrate, 718.
2:4-Dimethoxytoluene, 6-nitro-, 441.
4:6-Dimethoxy-*o*-toluidine, 441.
2:6-Dimethoxy*iso*valerophenone, and its semicarbazone, 1164.
Di(methylamino)cupric diphenol, 1230.
4″-Dimethylamino-4′-diethylamino-2′-acetoxydiphenylphthalide, 1268.
2′-Dimethylaminodiphenyl, 3-bromo-, and its chloroplatinate, 1591.
1-Dimethylamino-5-furyl-Δ⁴-penten-3-one, and its phenylhydrazone, hydrochlorides, 839.
Dimethylaminohexose phenylosazone, 226.
5-Dimethylamino-8-methoxy-2:3-diphenylquinoxaline, 826.
β-Dimethylamino-β-methylpropane, α-amino-, salts, 349.
***o*-(2-Dimethylaminophenyl)phenyltrimethylammonium** iodide, resolution of, 135.
***p*-Dimethylaminophenylpyridine,** 1499.
***p*-Dimethylaminostyrylbenzthiazole** methiodide, absorption spectrum of, 216.
Dimethyl anhydro-α-methylhexoside, 1081.
Dimethyl-*p*-anisidines, *di*nitro-, 825.
Dimethylascorbic acid, and its barium salt, 1287.
Dimethylbutadienes, dipole moments and atomic polarisation of, 1297, 1302.
βγ-Dimethyl-*n*-butane-ααβγδδ-hexacarboxylic acid, methyl ester, 814.
Dimethyl-*tert.*-butylsulphonium iodide and picrate, 1575.
Dimethylbutylsulphonium iodides, 535.
***O*-Dimethyldaidzein,** 275.
2:2-Dimethyldibenzopyrans, synthesis of, 1400.
2:8-Dimethyl-5:6:11:12-dibenzperylene-4:10-quinone, 3:9-*di*hydroxy-, 1519.
2:2′-Dimethyldibenzthiotricarbocyanine chlorides, 192.
6:6′-Dimethyl-1:1′-diethyl-2:2′-tricarbocyanine iodide, 193.
2:3-Dimethyl-2:3-dihydroindole, 3-nitro-2-hydroxy-, 958.
2:2-Dimethyldiphenyl *di*sulphide, 3:3′-*di*amino-, and -*di*nitro-, 501.
3:3′- and 5:5′-Dimethyldiphenyl *di*sulphides, 2:2′-*di*amino-, and their derivatives, 297.
4:4′-Dimethyldiphenylketoxime picryl and trinitro-*m*-tolyl ethers, 811.
3:3′-Dimethylenedi-β-naphtha*spiro*pyran, 434.
Dimethylethylarsine, and its salts, 95, 99.
Dimethylethylarsonium picrate, hydroxy-, 100.
Dimethylethylsulphonium iodide, 535.
αβ-Dimethylglutaconic acid, ethyl ester, methylation of, 556.
***l-trans*-αγ-Dimethylglutaconic acid,** catalytic action of acids on racemisation of, 595.
ββ-Dimethylglutaric acid, thermal decomposition of, 1028.
3:3′-Dimethylhelianthrone, 4:4′-*di*hydroxy-, and its diacetyl derivative, 1519.

1:1-Dimethyl*cyclo*hexane-2:4:6-trione-3:5-dicarboxylic acid, ethyl ester, 1617.
2:6-Dimethyl*cyclo*hexanone-2-acetic acid, ethyl ester, 1015.
2:3-Dimethylindole, acetyl and benzoyl derivatives, and 2-bromo-, 1-acetyl derivative, 2- and 3-hydroxy-, and nitro-derivatives, 957.
***O*-Dimethyl-lecanoric acid,** methyl ester, 494.
Dimethylmalonic acid, ethyl hydrogen ester, and its derivatives, 1617.
4:6-Dimethyl *α*-methylaltroside, 2:3-di-*p*-toluenesulphonyl derivative, 1080.
4:6-Dimethyl *α*-methylglucoside, 2:3-di-*p*-toluenesulphonyl derivative, 1080.
Dimethyl-(4-methyl-1-naphthyl)carbinol, 24.
Dimethylnaphthalene, *di*chloro-, 485.
1:3-Dimethylnaphthalene, and its picrate, 437.
1:5-Dimethylnaphthalene, 485.
4:8-Dimethylnaphthalene, 1-bromo-, 23.
4:8-Dimethyl-1-naphthoic acid. and its ethyl ester, 23.
1:1-Dimethylpentane-2:4-dione-1:3:5-tricarboxylic acid, ethyl ester, 1618.
1:3-Dimethylphthalaz-4-one, preparation of, 1333.
4:8-Dimethyl-1-*iso*propenylnaphthalene, and its derivatives, 24.
1:7-Dimethyl-4-*iso*propylnaphthalene, and its picrate, 129.
4:8-Dimethyl-1-*iso*propylnaphthalene, 24.
Dimethylpropylsulphonium iodides, 535.
Dimethyl-*γ*-pyrone, dipole moment of, 90.
***O*-Dimethylpyrousnic acid,** and its methyl ester, 1177.
2:2′-Dimethylselenotricarbocyanine iodide, 192.
absorption spectrum of, 216.
Dimethyl-1:2:3:4-tetrahydronaphthalenes, 436.
1:7-Dimethyl-1:2:3:4-tetrahydro-1-naphthol, 436.
3:3′-Dimethylthiazolinotricarbocyanine iodide, 192.
Dimethylthio-*γ*-pyrone, dipole moment of, 90.
2:2′-Dimethylthiotricarbocyanine chloride, 191.
***s*-Dimethylurea,** dipole moment of, 90.
***O*-Dimethylusneol,** and its picrate, 716.
3:9-Dimethylxanthine, and its salts, 668.
Dimethylzinc. See Zinc dimethyl.
Dinaphtha*spiro*pyrans, colour of, 430.
Dinaphthyl bases, 133.
Dioxan. See Diethylene *di*oxide.
***s*-Di-*p*-phenetylurea,** 1263.
2:2′-Diphenol, co-ordination compounds of, 1227.
Diphenyl derivatives, nitration of, 968.
derivatives, dissymmetrical, optical activity of, 1588.
2:2′-disubstituted derivatives, stereochemistry of, 135.
Diphenyl, 3-bromo-2′-amino-, and -2′-nitro-, 1591.
4:4′-*di*chloro-3:3′-*di*nitro-, preparation of, 1621.
Diphenyl sulphide, 4-chloro-2-nitro-2′-amino-, 1492.
*di*sulphides, *tetra-* and *hexa*-chloro-, 47.
sulphoxide, 4-chloro-2-nitro-2′-amino-, and its acetyl derivative, and 2-nitro-2′-amino-, acetyl derivative, 1492.
Diphenyl-4′-aldehyde, 2- and 4-nitro-, 971.
Diphenylaldehydes, and their derivatives, 43, 44.
Diphenylamine-6′-carboxylic acid, 2:5-*di*bromo-, 2:5-*di*chloro-, and 5-chloro-2-nitro-, 1372.
2:2′-Diphenylaminodiphenyl, *di-o*-amino-, and *di-o*-nitro-, and its *NN*-diacetyl derivative, 1521.
***αα*-Diphenyl-*n*-butane,** 533.
***αβ*-Diphenyl-*β*-*tert.*-butylurea,** 949.
Diphenylcarboxyanilides, 42, 44.
Diphenyl-4′-carboxylic acid, 4-nitro-, ethyl ester, 971.
2:3-Diphenylchromone, 1461.
2:3-Diphenylchromone, 7-hydroxy-, 1388.
3:3′-Diphenyl-4:4′-dimethyldicoumarin, 616.
3:4-Diphenyl-5:5-dimethyl-2-methylene-*Δ*^{3}-*cyclo*pentenone, 729.
3:4-Diphenyl-5:5-dimethyl*cyclo*pentane, 726.
3:4-Diphenyl-5:5-dimethyl*cyclo*pentanone, and its derivatives, 726.
3:4-Diphenyl-5:5-dimethyl-*Δ*^{2}-*cyclo*pentenone, 2- and 4-hydroxy-, and their derivatives, 724.
3:4-Diphenyl-5:5-dimethyl-*Δ*^{3}-*cyclo*pentenone, and its derivatives, 726.
3:4-Diphenyl-5:5-dimethyl*cyclo*pentenones, chloro-, and their derivatives, 729.
3:4-Diphenyl-5:5-dimethyl-*Δ*^{3}-*cyclo*pentenonylidene-3:4-diphenyl-5:5-dimethyl-*Δ*^{3}-*cyclo*pentenone, 731.
***αα*-Diphenylethyldimethylamine** picrate, 73.
***ββ*-Diphenylethyltriethylphosphonium** chloride, 532.
***αα*-Diphenylethyltrimethylammonium** iodide, 73.
2:3-Diphenylindole, bromo-, 1-acetyl, 1-benzoyl and 1-cinnamoyl derivatives, 959.
2:3-Diphenylindole-1-carboxylic acid, ethyl ester, 959.
Diphenylketoxime, *di-p*-chloro-, picryl and trinitro-*m*-tolyl ethers, 811.
Diphenylmethane, 4-amino-, 3:5-*di*bromo-, bromo-4-*mono-* and *-di*-amino-, *di*bromo-4-amino-, *tri*bromo-4-amino-, 3-bromo-5-iodo-4-amino-, bromo*di*nitro-4-amino-, 3:5-*di*iodo-, 3:5-*di*iodo-4-amino-, and 3:4′-*di*nitro-4-amino-, and their derivatives, 1062.
5:5′-*di*nitro-2:2′-*di*hydroxy-, and its diacetyl derivative, and 3:3′:5:5′-*tetra*nitro-, 699.
Diphenylmethyldimethylamine, *m*-hydroxy-, and its derivatives, 1097.
1:3-Diphenyl-2-methylindene, and 1-hydroxy-, 1499.
4:6-Diphenyl-2-methylpyrylium *per*chlorate, 1198.
Diphenyl-*βα*-naphthapyrones, 1462.
1:5-Diphenyl-3-(*β*-piperidinoethyl)pyrazoline, 839.
Diphenyl-*γ*-pyrone, dipole moment of, 90.
Diphenyl-4′-sulphonic acid, 4-amino-, 43.
Diphenyl-*o*-tolylacetaldehyde, 336.
3:4-Diphenyl-2:5:5-trimethyl-*Δ*^{2}-*cyclo*pentenone, 4-hydroxy-, and its 2:4-dinitrophenylhydrazone, 728.
***s*-Diphenylureas,** *di*chloro-, 1263.
Diphenylyl-2-arsonic acid, 3′-bromo-, 1591.
Diphenylyl-2-trimethylammonium iodide, 3-bromo-, 1591.
Diphenylyl-2-trimethylarsonium iodide, 3′-bromo-, 1591.
salts, 3′-bromo-, 1591.
***αγ*-Dipiperidino-*β*-(2:4-*di*nitrophenyl)propane,** 302.
Dipole moments, 1252.
of long-chain molecules, 1567.
Di-*n*-propyl-*n*-butylsulphonium salts, 993.
Dipyridinoplatinous chloride, *α-di*hydroxylamino-, 1059.
Di-3:3′-salicylic acid ketone, *di*-3:3′-5-nitro-, 700.
Dispersion, rotatory, of carbohydrates, 1564.
of organic compounds, 788, 951, 1179, 1444.
Dissociation constants of monobasic acids, 731.
of olefinic acids, 561.
of organic acids, 1637.
1:3-Distyrylbenzene, 2:4:6-*tri*nitro-, 980.
Disulphonamides, nitration of, 1290.
Disulphonylmethanes, substituted, attempted resolution of, 1506.
Dithallium diphenol, 1229.
Dithian, physical constants of, 1530.
Dithionates. See under Sulphur.
Ditolyl. See Dimethyldiphenyl.

E.

Elaidyl alcohol, oxidation of, 246.
Electric moments of cyclic 1:1-dicarboxylic esters, 1304.
polarisation. See under Polarisation.
Electrodes, glass, potential determinations with, 1200.

Electrolytic conductivity of salts in non-aqueous solvents, 645.
in ethyl alcohol, effect of acetaldehyde on, 658.
dissociation, specific effect of solvent in, 1360.
oxidation, 829.
Elements with consecutive atomic numbers, directive powers of, 482.
Emulsions, 1214.
concentrated, homogenisation of, 1458.
Equilibria, solid–liquid, 199, 236.
Equilibrium constants from cryoscopic data, 193.
in terms of activities, 1431.
Ergostadienediolone benzoate and its 2:4-dinitrophenylhydrazone, 305.
Ergostadienedionol, and its oxime, 305.
Ergostanetriol *di*acetate, 305.
Ergostenetriol-*B*, and its diacetate, 305.
Ergosterol, structure of, 302, 633, 1410.
action of selenium dioxide on, 387.
Ergosterol-B_3, 390.
dl-**Eserethole,** synthesis of, 1475.
dl- and *l*-**Eserethroles,** salts of, 1474.
Eserine, synthesis of, 270, 1472, 1475.
l-**Esermethole** tartrate, 271.
Esters, catalysis of hydrolysis of, by bisulphate ions, 291.
influence of iodine on decomposition of, 1147.
reactions of, with selenium dioxide, 391.
cyclic 1:1-dicarboxylic, electric moments of, 1304.
Ethane, ignition of mixtures of, with air, 1240.
4-Ethoxy-*o*-cresol, 6-nitro-, 821.
***m*-Ethoxydiethylaniline,** 1268.
2-Ethoxy-3:4-diphenyl-5:5-dimethyl-Δ^2-*cyclo*pentenone, and its 2:4-dinitrophenylhydrazone, 726.
2-Ethoxy-3:4-diphenyl-5:5-dimethyl-Δ^3-*cyclo*pentenone 2:4-*di*nitrophenylhydrazone, 724.
4-Ethoxy-3:4-diphenyl-5:5-dimethyl-Δ^2-*cyclo*pentenone, 728.
4-Ethoxy-3-methylbenzoic acid, 2:6-*di*hydroxy-, methyl ester, 718.
6-Ethoxy-4-methylquinoline, 2-chloro- and 2-hydroxy-, 1032.
4-Ethoxytoluene, 2:6-*di*nitro-, 820.
4-Ethoxy-*o*-toluidine, 6-nitro-, and its acetyl derivative, 821.
4-Ethoxy-2:3:5-trimethylcoumarone, 6-hydroxy-, 720.
4-Ethoxy-2:3:5-trimethylcoumarone-7-carboxylic acid, 6-hydroxy-, and its methyl ester, 719.
Ethyl alcohol, effect of acetaldehyde on conductivity in, 658.
Ethyl hyponitrite, parachor and dielectric polarisation of benzene solutions of, 309.
iodide, reaction of, with sodium thiosulphate, 1576.
Ethylaniline, dipole moment of, 1255.
β-Ethylanilinopropane, α-amino-, salts, 349.
α-Ethylanilinopropionitrile, 349.
***o*-Ethylcarbonatobenzal** chloride, preparation and hydrolysis of, 498.
2-Ethylchromone, 433.
Ethyldi*iso*butylsulphonium salts, 993.
Ethyldi-*n*-propylsulphonium salts, 993.
Ethylene, compressibility of, 621.
ignition of mixtures of, with air, 1241.
*di*chloride, dielectric constant of, 773.
Ethylene, ***trans*-di**iodo-, vapour pressure of, 429.
Ethylene glycol, thio-, 46.
Ethylene oxide, Reformatsky reaction with compounds of type of, 362.
Ethylene*di*aminotrimethylene*di*aminoplatinic salts, 1339.
β-Ethylene*di*aminotrimethylene*di*aminoplatinous salts, 1339.
1-Ethyl-Δ^2-*cyclo*hexene-1:3-dicarboxylic acid, and its ethyl ester, 1631.
2-Ethyl-α-naphthachromone, 433.
12-Ethyloctahydrophenanthrene, 1465.
Ethylphenanthrenes, and their salts, 1015.
Ethyl *iso*propyl ketone nitrophenylhydrazones, 728.
Ethylsulphonylethylthioacetone, 308.
***n*- and *iso*-Eugenols,** refractive dispersion of, 557.
***iso*Everninic acid,** methyl ester, 494.
Explosions, low-pressure, formation of water-gas in, 1557.

F.

Faraday Lecture, 1366.
Ferric sulphate. See under Iron.
Ferrocyanides, hexaethylated, 101.
Ferrous sulphate. See under Iron.
Filaments, heated, detection of adsorbed gas films on, 798.
Filicinic acid, synthesis of, 1617.
Filix mas, constituents of, 819, 1617.
Films, surface, of unsaturated compounds, 338.
Fish, elasmobranch, unsaponifiable matter from oils of, 165.
Flames, movement of, 546.
Flavone, 5:7:3′:4′:5′-*penta*hydroxy-, acetyl derivative, 942.
Flavones, *di*- and *tetra*-hydroxy-, 1075.
***iso*Flavones,** synthesis of, 274, 374.
Flavylium chloride, 4′-amino-7-hydroxy-, -3:7-*di*hydroxy-, and -3:5:7-*tri*hydroxy-, and its benzoyl derivative, and 4′-nitro-3:5:7-*tri*hydroxy-, 28.
Fluorene-2-arsonic acid, 7-amino-9-hydroxy-, diacetyl derivative, 1456.
9-Fluorenol-2-arsonic acid, and 7-amino-, and their salts and derivatives, 1456.
9-Fluorenol-7-glycineamide-2-arsonic acid, and its sodium salt, 1456.
Fluorenone-7-glycinemethylureide-2-arsonic acid, and its sodium salt, 1455.
Fluorenone-7-glycinephenylureide-2-arsonic acid, and its sodium salts, 1456.
Fluorenone-7-glycineureide-2-arsonic acid, and its sodium salt, 1455.
9-Fluorenylamine, 1499.
Fluorenylidene-9-fluorenylamine, 1500.
Formaldehyde, polymerisation of, 1193.
condensation of, with *p*-nitrophenol, 699.
Formic acid, chloro-, esters, rotation of chlorides from decomposition of, 179.
Formo-ββγ-*tri*bromo-α-hydroxybutylamide, 995.
Formo-β-chloro-βγ-*di*bromo-α-hydroxybutylamide, 995.
Formo-βγ-*di*chloro-β-bromo-α-hydroxybutylamide, 995.
β-(*o*-Formylphenyl)propaldehyde, and its dioxime, 554.
Fulminic acid, mercury salt, thermal decomposition of, 1396, 1400.
Furanoquinolines, 1087.
Furfurylideneacetone, β-amino-ketones and pyrazolines from, 839.

G.

Gallacetophenone, benzoyl derivatives of, 1387.
Galangin, synthesis of, and its *O*-tribenzoyl derivative, 369.
Garcinin, synthesis of, 610.
Gas, water-, equilibrium of formation of, in low-pressure explosions, 1557.
Gases, compressibilities of, at low pressures, 619.
ignition of, 1240.

Gases, adsorbed, detection of films of, on heated filaments, 798.
mixed, explosive, coil ignition of, 227.
Gas reactions, homogeneous catalysis of, 1147.
Glass electrodes. See under Electrodes.
Glucose series, Walden inversion in, 1076.
Glucosides. See Glycosides.
3-β-Glucosido-4-methylglyoxaline methochloroaurate, 666.
Glutaconic acids, 595.
Glutaric acids, substituted, thermal decomposition of, 1028.
Glycollaldehyde octadecyl ether, and its 2:4-dinitrophenylhydrazone, 166.
Glycollic acid, and its ethyl ester, octadecyl ethers of, 166.
Glycosides, synthesis of, 1618.
natural, 1167, 1170.
substituted, 223.
See also Primeverin.
Glutaconic acids, and their esters, structure of, 1628.
Glyoxylic acid, and ω-amino- and ω-chloro-, ethyl esters, chlorophenylhydrazones of, 1490.
Glyoxylic acid, α-amino-, ethyl ester, chloronitro- and nitro-phenylhydrazones, 1146.
α-amino-, and α-nitro-, ethyl esters, phenylhydrazones of, 477.
α-chloro-, ethyl ester, chloronitro- and nitrophenylhydrazones, 1145.
Guanosine, enzymatic preparation of, 667.

H.

n- and *iso*-**Hæmatommic acids,** methyl esters, 133.
Halides, influence of iodine on decomposition of, 1147.
Halogens, relation of electromeric effects and relative polarisabilities of, 1114.
nuclear, influence of, on aromatic side-chain activity, 1112.
side-chain, reactivities of, with reference to reaction mechanism, 1128.
Harman from yohimbine, 615.
Helianthrone, 3:3′:4:4′-*tetra*hydroxy-, tetra-acetyl derivative, 1518.
Helminthosporin, synthesis of, 488.
Heptadecane, equilibria of, with its homologues, 1348.
Heptadecyl alcohol, and its acetate, 637.
equilibria of, and its homologues, 1348.
$\Delta^{\gamma\epsilon}$-Heptadiene-α-carboxylic-β-malonic acid, methyl ester, 961.
***O*-Heptamethylphloridzin,** 1171.
Heptane-α-carboxylic-β-malonic acid, methyl ester, 961.
Heptane-1:3:7-tricarboxylic anhydride, 1015.
Δ^{γ}-*iso*Heptenoic acid, preparation of, 584.
δ-*iso*Heptolactone, 585.
Hexadecanesulphonic acid, preparation of, 739.
Hexadecyl alcohol, equilibrium of, with octadecyl alcohol, 637.
Hexahydroanagyryline, 508.
Hexahydrochrysenes, 609.
Hexahydrodeoxyanagyrine, and its salts, 509.
Hexahydrofluorene, 1109.
trans-**Hexahydrohydrindene-2-acetic acid,** and its amide, 1487.
trans-**Hexahydrohydrindyl-2-acetone,** and its derivatives, 1487.
trans-**Hexahydrohydrindylidene-2-*trans*-hexahydrohydrindone,** derivatives of, 1479.
as-**Hexahydropyrene,** and its picrate, 404.
β-1:2:3:6:7:8-Hexahydro-4-pyrenoylpropionic acid, and its semicarbazone, 405.
γ-1:2:3:6:7:8-Hexahydro-4-pyrenylbutyric acid, and its lactone, 405.
Hexahydroxanthone, 10:11-*di*chloro-, 234.
4:5:6:3′:4′:5′-Hexamethoxy-3:3-diphenylcoumaran, 375.
Hexamethylferrocyanogen mercuri-iodide, 104.
1:3:3:1′:3′:3′-Hexamethylindotricarbocyanine iodide, 193.
*cyclo*Hexane-1:1-diacetic acid, thermal decomposition of, 1028.
Hexane-2:4-dione-1:3:5-tricarboxylic acid, ethyl ester, 439.
*cyclo*Hexanol-2:6-dicarboxylic acid, ethyl ester, 1630.
*cyclo*Hexane*spirocyclo*pentane, 353.
*cyclo*Hexanone-2:6-dicarboxylic acid, ethyl ester, 1630.
*cyclo*Hexanone-2-propionic acid, and its methyl ester, 1015.
tert.-Hexylaniline, and its derivatives, 950.
γ-*cyclo*Hexyl-*sec.*-butyl alcohol, 1484.
*cyclo*Hexyloxydi*cyclo*hexylphenylsilicane, 1042.
*cyclo*Hexylphenyl-5:5-dimethyl*cyclo*pentanone 2:4-*di*-nitrophenylhydrazone, 727.
α-*cyclo*Hexylpropionic acid, and its derivatives, 1483.
*cyclo*Hexylsulphonylacetone, 308.
Höchst Yellow R and **U,** degradation of, 1001.
Homocaronic acid, synthesis of, 1225.
cis-**Homocaronic acid,** action of hydrogen chloride on, 1227.
dl-**Homolaudanosoline,** synthesis and dehydrogenation of, 1583.
Homopiperonal, preparation of, and its 2:4-dinitrophenylhydrazone, 1530.
Homopiperonylmethylamine, 278.
Homopiperonylmethylaminodiethylacetal, and its methiodide, 278.
Homopiperonylmethylaminodimethylacetal, 279.
Homoveratric acid, amide and ethyl ester, 1466.
Hormones, œstrus-producing, compounds related to, 1098.
Hydrazobenzene, dipole moment of, 1255.
1:1′-Hydrazonaphthalene, 134.
Hydriodic acid. See under Iodine.
Hydrocarbon, cancer-producing, from coal tar, 395.
Hydrocarbons, combustion of, 1599.
paraffin, preparation of, 346.
polycyclic aromatic, 1408, 1592.
Hydrochloric acid. See under Chlorine.
Hydrocyanic acid. See under Cyanogen.
Hydroferrocyanic acid, and its metallic salts, 1543.
Hydrogen, photochemical combination of, with chlorine in presence of oxygen, 743.
explosions of mixtures of, with air, 882.
Hydrogen sulphide, influence of solvent on reaction of, with iodine, 836.
Hydroxides, electrometric precipitation of, 9, 601, 1045, 1050, 1429.
Hydroxoaquotetramminochromic salts. See under Chromium bases.
Hypochlorous acid. See under Chlorine.
Hypophosphoric acid. See under Phosphorus.

I

Ignition of gases, 1240.
coil, of explosive mixtures of gases, 227.
Indican, natural and synthetic, 30.
Indigotin, benzoyl derivatives of, 1000.
Indole compounds, additive reactions of, 955.
polycyclic, action of halogens on, 298.
Indole-2-carboxylimide, 5:7-*di*nitro-, 487.
Interfacial tension, measurement of, 1449.
Iodine, influence of solvent on reaction of, with hydrogen sulphide, 836.

Iodine:—
Hydriodic acid, reaction of, with chlorine, 1315.
with cyanogen halides, 1318.
Iron:—
Ferric sulphate, oxidation–reduction potential of mixtures of ferrous sulphate and, in sulphuric acid solution, 10.
Ferrous sulphate, oxidation–reduction potential of mixtures of ferric sulphate and, in sulphuric acid solution, 10.

K

Keten, absorption spectrum and photochemical decomposition of, 1533.
Keto-anils, aliphatic, constitution of, 1327.
1-Keto-3-(benzeneazophenyl)-2-methyltetrahydrophthalazine-4-acetic acid, 1070.
4-Ketobenzdioxin, 8-bromo-6-nitro-, and 8-chloro-6-nitro-, 700.
α-Ketobutaldehyde, β-chloro-, 2:4:5-trichlorophenylhydrazone, 1490.
3-Keto-4-*o*-carboxybenzoyl-10-ethoxy-7-methyl-3:4:5:6-tetrahydro-4-ψ-carboline, 1473.
1′-Keto-1:2:3:6:7:8:1′:2′:3′:4′-decahydro-4:5-benzpyrene, 405.
Keto-6:7-dimethoxy-2-methyl-1:2:3:4-tetrahydronaphthalenes, 86.
1-Ketodimethyl-1:2:3:4-tetrahydronaphthalenes, 436.
3-Keto-*d*-glucoheptonofuranolactone, 1422.
2-Keto*cyclo*hexane*spirocyclo*pentane, dehydrogenation of, 353.
α-Keto-β-methoxybutaldehyde *penta*chlorodiphenylosazone, 1490.
7-Keto-6-methyl-7:10-dihydro-8:9-benzquinoquinoline, and its sulphate, 391.
Ketones, influence of iodine on decomposition of, 1147.
cyclic Δ^2-unsaturated, synthesis of, 1481.
dicyclic, condensation products of, 1477.
heterocyclic, 839.
1-Keto-3-(4′-nitrobenzeneazophenyl)-2-methyltetrahydrophthalazine-4-acetic acid, 1070.
1-Keto-3-(4′-nitrophenyl)-2-methyltetrahydrophthalazine-4-acetic acid, and its methyl ester, 1069.
β-Keto-*n*-pentane-γδ-dicarboxylic acid, methyl ester, and its semicarbazone, 814.
α-Ketopropaldehyde, phenylhydrazones, and ω-amino-, *ω-mono-*, *βω-di-* and *ββω-tri*-bromo-, 477, 478.
1-Keto-7-*iso*propyl-1:2:3:4-tetrahydronaphthalene, 436.
1-Keto-1:2:3:4-tetrahydro-5:6-benzanthracene, 1014.
4′-Keto-1′:2′:3′:4′-tetrahydro-1:2-benzpyrene, 403.
7-Keto-4:5:6:7-tetrahydrochysene, 1014.

L

Laudanosoline dimethyl ether, synthesis of, 280.
Lead azide, thermal decomposition of, 1395.
nitrate, equilibrium of, with ammonium and potassium nitrates, 199.
oxynitrates, formation of, in molten mixtures, 648.
Lectures delivered before the Chemical Society, 316, 1366, 1599.
Lepidine, 2-chloro-, condensation of, with anthranilic acid, 390.
Lichen acids, 130, 493.
Liquids, binary mixed, mixture rule for, 114.
organic, dielectric constants of, 768.
Lithium chloride, apparent molar volumes of, in aliphatic alcohols, 933.
Lithium organic compounds:—
Lithium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 841.
Lupanine, structure of, 644.
Lupin alkaloids, 644.

M

Maclurin, cyano-, and its derivatives, synthesis of, 288.
Magnesium chloride, equilibrium of, with calcium oxide and water, 701.
ammonium phosphate, 854.
Malonatotetramminocobaltic nitrate, 518.
Mandelic acid, acid salts, 1016.
Manilla elemi, β-amyrin from, 1345.
Mannich reaction applied to derivatives of 4-methylquinoline and 2:4-dinitrotoluene, 300.
Margaric acid, ethyl ester, equilibria of, with ethyl palmitate and stearate, 636.
Memorial Lecture, 316.
*dl-neo***Menthol**, optical resolution of, and its derivatives, 167.
dl- and *d-iso***Menthols**, and their derivatives, 172.
Menthone series, 167, 170.
Menthoxyacetic acids, *l-neo*menthyl esters, 169.
p-**Mercaptobenzoic acid**, ethyl ester, 1507.
Mercury alloys, vapour pressure of, 537.
Mercuric salts, action of ammonia on solutions of, 1045.
Mercuric chloride, equilibria of, with water and alkaline-earth or cupric chlorides, 151.
action of ammonia on solutions of, 601.
oxide, standardisation of acid solutions with, 9.
Mercurous oxide, equilibrium of, with nitrogen pentoxide and water, 1416.
Mesityl β-chloroethyl sulphide, sulphone and sulphoxide, 46.
β-hydroxyethyl sulphide, 46.
oxide 2:4-dinitrophenylhydrazone, 731.
Metals of the iron group, qualitative separation of, in presence of phosphate, 253.
Metallic salts, electrostriction produced by, in aliphatic alcohols, 933.
Methane, speed of flame in mixtures of air and, 546.
explosions of, with air, 758.
Metathebainone, 1038.
4-Methoxy-7-acetoacetyl-2:3:5-trimethylcoumarone, 6-hydroxy-, 1178.
4-Methoxy-5-acetyl-2:3:7-trimethylcoumarone, 6-hydroxy-. See *O*-Methyl*iso*usnetol.
4-Methoxy-7-acetyl-2:3:5-trimethylcoumarone, 6-hydroxy-. See *O*-Methylusnetol.
2-Methoxyanthrone, 4-bromo-1-hydroxy-, and its diacetyl derivative, 1517.
o-**Methoxybenzal** chloride, preparation and hydrolysis of, 498.
2-Methoxybenzaldehyde, 3:5-*di*nitro-, and its derivatives, 487.
3-Methoxybenzoic acid, 5-amidosulphonyl and 5-chlorosulphonyl derivatives and their derivatives, 1374.
Methoxybenzoic acids, amido- and chloro-sulphonyl derivatives, and their derivatives, 1378.
thiol-, 1378.
4-Methoxybenzoyl chloride, 3-nitro-, 26.
Methoxybenzoylmethoxytoluic acid, hydroxy-, 489.
m-**Methoxybenzoylsuccinic acid**, ethyl ester, 1472.
δ-*o*-**Methoxybenzoylvaleric acid**, and 5-amino-, and its derivatives, and 5-chloro-, and 5-nitro-, 1587.
2′-Methoxy-3-benzyl-2-methylchromone, 7-hydroxy-, acetyl derivative, 289.
7-Methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-2-methyl*iso*quinolinium chloride, 6-hydroxy-, 281.
7-Methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-2-methyl-1:2:3:4-tetrahydro*iso*quinoline, 6-hydroxy-, 281.

7′-Methoxychromeno-(3′:4′:2:3)-chromone, 7-hydroxy-, 492.
4-Methoxycinnamic acid, methyl ester, 609.
4-Methoxy-*o*-cresol, 6-nitro-, 441.
***m*-Methoxydiethylaniline,** 1269.
6-Methoxy-2:3-dimethylcoumarone, 717.
3″-Methoxy-2:2-dimethyldibenzopyran, 1404.
5-Methoxy-1:3-dimethylindole, synthesis of, 271.
5-Methoxy-1:2-dimethyl-3-β-phenoxyethylindole, 272.
3-Methoxydiphenyl-2′-carboxylic acid, 2-hydroxy-, lactone, 1404.
2-Methoxy-3:4-diphenyl-5:5-dimethyl-Δ³-*cyclo*pentenone 2:4-*di*nitrophenylhydrazone, 724.
2-Methoxy-3:4-diphenyl-5:5-dimethyl-Δ²-*cyclo*pentenone 2:4-*di*nitrophenylhydrazone, 725.
4-Methoxy-3:4-diphenyl-5:5-dimethyl-Δ²-*cyclo*pentenone, and its 2:4-dinitrophenylhydrazone, 728.
***m*-Methoxydiphenylmethyldimethylamine,** and its hydrochloride, 1097.
Methoxyergostadienediol, and its benzoate, 305.
4-Methoxy-6-ethoxy-*o*-cresol, 719.
6-Methoxy-4-ethoxy-*o*-cresol, 822.
7-Methoxy-5-ethoxy-2:8-dimethyl-3-ethylchromone, 822.
6-Methoxy-4-ethoxy-3-methylbenzaldehyde, 2-hydroxy-, and its derivatives, 719.
6-Methoxy-4-ethoxy-3-methylbenzoic acid, 2-hydroxy-, and its methyl ester, 718.
Methoxyethoxy-3-methyl-*n*-butyrophenones, hydroxy-, 822.
6-Methoxy-2-ethoxy-4-methylquinoline, 301.
6-Methoxy-4-ethoxy-*o*-toluidine, and its acetyl derivative, 822.
7-Methoxy-2-ethylchromone, 432.
4′-Methoxyflavone, 6-hydroxy-, 1075.
7-hydroxy-, 1386.
8-Methoxyflavone, 5-hydroxy-, and its acetyl derivative, 1623.
4′-Methoxyflavylium chloride, 3′-nitro-3:5:7-*tri*hydroxy-, and its 5-benzoyl derivative, 27.
Methoxymalonic acid, derivatives of, 1627.
7-Methoxy-1-(4′-methoxy-3′-hydroxybenzyl)-2-methyl-1:2:3:4-tetrahydro*iso*quinoline, 6-hydroxy-, and its picrolonate, 281.
7′-Methoxy-4-(7″-methoxy-4″-phenylcoumarin-3″-acetoxy)naphtha(1:2:4′:3′)coumarin, 1471.
4-Methoxy-3-methylacetophenone, 2:6-*di*hydroxy-, 1178.
6-Methoxy-3-methylacetophenone, 2:4-*di*hydroxy-, 1178.
6-Methoxy-3-methylbenzaldehyde, 2:4-*di*hydroxy-, 719.
2-Methoxy-5-methyldiphenyl, 1404.
7-Methoxy-3-methyl-2-ethylchromone, 433.
2-Methoxy-5-methyl-2′-α-hydroxy*iso*propyldiphenyl, 1404.
5-Methoxy-3-methyl-3-β-phenoxyethylindolenine, and its derivatives, 1476.
1-Methoxy-4-methylphthalazine, and its picrate, 1333.
1-Methoxy-3-methylphthalaz-4-one, 1334.
2-Methoxy-4-methylquinoline, 8-chloro-, 301.
6-Methoxy-4-methylquinoline, 2-hydroxy-, 1032.
7′-Methoxynaphtha(1:2:4′:3′) coumarin, 4-hydroxy-, and its acetyl derivative, 1470.
5-Methoxyphenoxyacetic acid-2-acetonitrile, 491.
5-Methoxyphenoxyacetic acid-2-resacetophenone, 491.
5-Methoxyphenoxyacetic-2-pyruvic acid, 491.
α-3-Methoxyphenoxypropionic acid, ethyl ester, 716.
α-*m*-Methoxyphenyl-*n*-amyldimethylamine, and its hydrochloride, 1097.
***m*-Methoxyphenyl-*n*-butylcarbinol,** 1097.
α-*m*-Methoxyphenyl-*n*-butyldimethylamine, and its methiodide, 1097.
7-Methoxy-4-phenylcoumarin-3-acetic acid, 1470.
7-Methoxy-4-phenyl-2-ethylbenzopyrylium salts, 432.
***m*-Methoxyphenylethylcarbinol,** 1094.
7-Methoxy-4-phenyl-3- and -3′-methylbenzo-β-naphtha-*spiro*pyrans, 432.
7-Methoxy-4-phenyl-3-methyl-2-ethylbenzopyrylium *per*chlorate, 433.
2′-Methoxy-β-phenylpropiophenone, 2:4-*di*hydroxy-, 289.
α-*m*-Methoxyphenylpropyldimethylamines, and their derivatives, 1094.
7-(2-Methoxyphenylthio)-7′-acetoxystilbene, 7-5-chloro-, 1529.
7-(2-Methoxyphenylthio)deoxybenzoin, 7-5-chloro-, 1529.
1-Methoxyphthalazine, 4-hydroxy-, and its acetyl derivative, 1334.
6-Methoxy-2-piperazino-4-methylquinoline, 301.
6-Methoxy-2-piperidino-4-methylquinoline, 301.
6-Methoxyquinoline, 5-nitro-, cuprichloride, 999.
4-Methoxysalicylic acid, methyl ester, alkylglycosides of, 1619.
***d*-β-Methoxysuccinic acid,** α-hydroxy-, derivatives of, 643.
7-Methoxy-2:8:4′:5′-tetramethyl-5:6-furano-(2′:3′)-chromone, 1178.
Methoxytoluenes, thiol-, and their derivatives, 1377.
Methoxytoluenesulphonic acids, salts and derivatives of, 1377.
4-Methoxy-*o*-toluidine, 6-nitro-, 441.
2-Methoxy-*p*-toluidine, 5-nitro-, 1167.
4-Methoxy-2:3:5-trimethylcoumarone, 6-hydroxy-, 718.
4-Methoxy-2:3:5-trimethylcoumarone-7-carboxylic acid, 6-hydroxy-, and its methyl ester, 718.
Methyl alcohol, partial vapour pressure of, in aqueous solutions, 674.
Methyl ether, compressibility of, 621.
fluoride, compressibility of, 621.
hyponitrite, parachor of, 309.
iodide, addition of, to pyridine, 1237.
***s*-Methyl** sulphite, dielectric polarisation of benzene solutions of, 309.
1-Methylacridone, 4-chloro-, 1372.
1-*O*-Methylalizarin, *O*-hepta-acetyl derivative, 1168.
α-Methyl-α′-*n*-amylglutaric acid, and its imide, 509.
Methylaniline, nitrosation of, 510.
Methyl-*p*-anisidine, 3:5-*di*nitro-, and 3:5-*di*nitro-*N*-nitroso-, 827.
nitroso-, 271.
2-Methylanthrone, 1-hydroxy-, 1519.
Methyl-1:2-benzanthracenes, and their picrates, 1595.
5-Methyl-1:2-benzanthraquinone, 1596.
***p*-Methylbenzhydrylidene-α-phenylethylamine,** 1502.
ε-5-Methylbenzoylhexoic acid, 2-hydroxy-, 234.
6-Methyl-8:9-benzquinoquinoline, and its chloroplatinate, 391.
Methylbutadienes, dipole moments and atomic polarisation of, 1297, 1302.
β-Methyl-*n*-butane-αaδ-tricarboxylic acid, methyl ester, 813.
α-Methylbutyric acid, β-chloro- α-hydroxy-, 805.
7-Methylcarbamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1457.
4-Methyl-1:2:5:6-dibenzanthracene, and its dipicrate, 1596.
Methyldiethylsulphonium salts, 992.
Methyl α-3:5-dimethoxy-2-methylphenoxyethyl ketone, and its semicarbazone, 718.
Methyl α-3:5-dimethoxyphenoxyethyl ketone, and its semicarbazone, 717.
5-Methyldiphenyl, 2-hydroxy-, and its benzoyl derivative, 1404.
2-Methyldiphenylamine-6′-carboxylic acid, 5-chloro-, 1372.

5-Methyldiphenyl-2′-carboxylic acid, 2-hydroxy-, lactone, 1403.
Methyldi-*n*-propyl picrate, 992.
Methylene blue, derivatives of, 248.
α-3:4-Methylenedioxybenzylidene-β-3:4-dimethoxybenzoylpropionic acid, lactone, 1088.
6:7-Methylenedioxy-4-ethoxy-2-methyltetrahydro*iso*quinoline picrate, 279.
6:7-Methylenedioxy-2-methyltetrahydro*iso*quinoline, 4-hydroxy-, picrate, 279.
6:7-Methylenedioxy-4-phenyl-2-methyl-1:2-dihydro*iso*quinoline, and its picrate, 278.
Methylethyl*iso*butylsulphonium iodide, 535.
6-Methyl-2-ethylchromone, 1389.
3-Methyl-2-ethyl-α-naphthachromone, 434.
Methylethylpropylsulphonium picrates, 535.
2-Methyl*iso*flavone, 1461.
α-Methylglucoside, 2:3-di-*p*-nitrobenzoyl and -dibenzoyl and 2:3-di-*p*-toluenesulphonyl derivatives, 1079.
β-Methylglutaric acid, *αβ-di*cyano-, ethyl ester, hydrolysis of, 815.
Methylglycosidodimethylammonium *p*-toluenesulphonate, 226.
β-Methylheptadiene-*aaη*-tricarboxylic acid, methyl ester, 961.
β-Methylheptane-*aaη*-tricarboxylic acid, methyl ester, 961.
α-Methyl-*trans*-hexahydrohydrindene-2-acetic acid, and its derivatives, 1487.
α-Methyl-*trans*-hexahydrohydrindyl-2-acetone, and its oxime, 1487.
α-Methyl-*trans*-hexahydroindene-2-acetic acid, and its derivatives, 1485.
7-Methylhexahydroxanthone, 10:11-*di*chloro-, 235.
δ-Methylhexoic acids, δ- and γ-bromo-, 576.
α-Methyl-α-*cyclo*hexylacetone, 1483.
α-Methyl*cyclo*hexylideneacetone, and its semicarbazones, 1482.
2-Methyl*cyclo*hexylideneacetone, and its semicarbazone, 1484.
α-Methyl-α-3-hydroxy-5-methoxy-2-acetyl-4-methylphenoxyacetone, 1179.
5-Methyl-2′-α-hydroxy*iso*propyldiphenyl, 2-hydroxy-, and its acetyl derivative, 1404.
Methylmalonanilamide-*p*-arsonic acid, and its sodium salt, 1066.
Methylmalonanilethylamide-*p*-arsonic acid, and its sodium salt, 1066.
Methylmalonanilide-*p*-arsonic acid, 1066.
Methylmalonanilide-*pp′*-diarsonic acid, 1067.
Methylmalonanilomethylamide-*p*-arsonic acid, and its sodium salt, 1066.
Methylmalonanilo-*n*-propylamide-*p*-arsonic acid, and its sodium salt, 1066.
Methylmalonic acid, esters, 1065.
Methyl α-3-methoxyphenoxyethyl ketone, and its semicarbazone, 717.
1-Methylnaphthalene, and 1-chloro-, 485.
2-Methylnaphthalene, 6:7-*di*hydroxy-, 86.
α-Methyl-α′-[β-(α-naphthyl)ethyl] adipic acid, 1086.
5-Methyl-2-β-(α-naphthyl)ethyl*cyclo*pentanol, 1086.
5-Methyl-2-β-(α-naphthyl)ethyl*cyclo*pentanone, and its semicarbazone, 1086.
Methyloctahydrophenanthrenes, 1084.
2-Methyl*cyclo*pentanone-2:3-dicarboxylic acid, methyl ester, and its semicarbazone, 818.
1:2-(5′-Methyl*cyclo*pentano)tetrahydrophenanthrene, 1086.
3-Methyl-3-β-phenoxyethylindolenine, and its picrate, 273.
Methyl-2-β-phenylethyl*cyclo*hexanols, 1083.
2-Methyl-2-β-phenylethyl*cyclo*hexanone, and its semicarbazone, 1084.
1-Methyl-2-β-phenylethyl*cyclo*pentanol, 1085.
Methylphloracetophenone, and its triacetate, 443.
Methylphloroglucinol, derivatives of, 437.
α-diethyl ether, 821.
Methylphloroglucinoldicarboxylic acid, ethyl ester, 440.
4-Methylphthalazine, 1-hydroxy-, acetyl derivative, 1334.
3-Methylphthalaz-4-one, 1-hydroxy-, and its acetyl derivative, 1334.
β-Methyl-*n*-propane-*aaβγγ*-pentacarboxylic acid, methyl ester, 814.
β-Methyl-*n*-propane-*aγγ*-tricarboxylic acid, γ-bromo-, ethyl ester, 815.
1-Methyl-4-*iso*propenylnaphthalene, and its picrate, 24.
Methyl*iso*propyl*iso*butylsulphonium picrate, 536.
1-Methyl-4-*iso*propylnaphthalene, 24.
and its picrate, 130.
1-Methyl-1-*iso*propyl-1:2:3:4-tetrahydro-1-naphthol, 436.
3-Methyl-5-(3-pyridyl)pyrazole, and its salts, 351.
4-Methylquinoline, 2:8-*di*chloro-, and 8-chloro-2-hydroxy-, 301.
4′-Methyl-2-stilbazole, 78.
4′-Methyl-2-stilbazolealkine, 78.
Methylsulphonylmethoxybenzoic acids, 1377.
8-Methyl-6:7:15:16-tetrahydro-5:18:9:14-dibenzpyridocolinium iodide, 2:3:11:12-*tetra*hydroxy-, 1585.
Methylthiolmethoxybenzoic acids, 1378.
Methylthiolmethoxytoluenes, 1377.
Methyltri-*sec.*-butylphosphonium iodide, 1044.
3:3′-(β-Methyltrimethylene)di-β-naphtha*spiro*pyran, 434.
Methyltri*iso*propylphosphonium iodide, 1044.
Methyltropacocaine, 1512.
1-Methyl-ψ-tropine, and its derivatives, 1511.
1-Methyltropinone, and its derivatives, 1511.
***O*-Methylusnetic acid,** 1178.
***O*-Methylusnetol,** 1179.
***O*-Methyl*iso*usnetol,** 1178.
Michael reaction applied to triene esters, 960.
Micro-organisms, formation of organo-metallic compounds by, 95.
Molecular dissymmetry and physiological activity, 1094.
Molecules, long-chain, dipole moments of, 1567.
Molybdenum, thermal decomposition of phosphine by, 586.
Morinidin chloride, and its *o*-benzoyl derivative, 370.
3:5:7-trimethyl ether, 290.
Morphine group, synthesis in, 280.
Muconic acid, ethyl ester, hydrogenation of, 885.
Myristic acid, films of, on aqueous solutions, 1525.

N

Naphtha(1:2:4′:3′)coumarin, 4:7′-*di*hydroxy-, and its diacetyl derivative, 1470.
Naphthadianthrone, 3:3′:4:4′-*tetra*hydroxy-, tetraacetyl derivative, 1517.
Naphthalene, 1-bromo- and 1-iodo-2:4-*di*nitro-, 1621.
1:5- and 1:8-*di*nitro-, preparation of, pure, 1346.
Naphthalenes, homologous, synthesis of, 434.
2′:3′-Naphtha-1:2-pyrene, 403.
2′:3′-Naphtha-1:2-pyrene-1′:4′-*endo*-αβ-succinic anhydride, 404.
β-Naphthoic acid, *dl*-menthyl esters, 169, 173.
α-Naphthol, 8-nitro-, 287.
β-Naphthols, *di*nitro-, 288.
α- and β-Naphthols, nitration of, 286.
1-Naphthol-2:3-dimethylnaphthalenes, 1596.

β-Naphthol-1-sulphonic acid, reaction of diazosulphonates from, 1067.
1-α-Naphthoyl-6-methyl-2-naphthaldehyde, 1596.
β-Naphthyl β-chloroethyl sulphide, chloro-, 48.
1-*di*sulphide, bromo-derivatives, 787.
α- and **β-Naphthyl** β-chloroethyl sulphides and sulphones, 47.
β-hydroethyl sulphides and sulphones, 47.
1-α-Naphthylacetyl-2-methyl-Δ¹-*cyclo*pentene, 1106.
α-Naphthylamine, 2- and 4-nitro-, preparation of, 1205.
5-nitro-, preparation of, 1346.
α-Naphthylchloroacetic acid, ethyl esters, optically active, 713.
***r*-α-Naphthylchloroacetic acid,** and its (−) menthyl ester, 36.
2-Naphthylene 1-thiolcarbonate, 6-bromo-, 787.
β-1-Naphthylethyl alcohol, and its bromide, 1014.
β-1-Naphthylethyl chloride and picrate, 1107.
α-[β-(α-Naphthyl)ethyl] adipic acid, 1086.
2-(β-1′-Naphthylethyl)*cyclo*hexanone-2-carboxylic acid, ethyl ester, 1015.
1-β-(1′-Naphthyl)ethyl*cyclo*pentanol, 1107.
2-β-(α-Naphthyl)ethyl*cyclo*pentanol, 1086.
2-β-(α-Naphthyl)ethyl*cyclo*pentanone, and its semicarbazone, 1086.
1-β-(1′-Naphthyl)ethyl-Δ¹-*cyclo*pentene, and its picrate, 1108.
α-Naphthylglycollic acid, ethyl esters, optically active, replacement of hydroxyl by chlorine in, 705.
(−) menthyl esters of, 32.
α- and β-Naphthylidenebenzylamines, 41, 42.
α- and β-Naphthylmethylamines, and their derivatives, 41, 42.
β-Naphthyl*iso*propylamine, and its derivatives, 496.
hydrochloride, action of heat on, 495.
Nickel sulphate, equilibria of, with ammonium and sodium sulphates and water, 943.
Nickel organic compounds :—
Nickel carbonyl, dipole moment of, 652.
4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
Nickel determination :—
determination of, and its separation from copper, 895.
Nicotine, oxidation of, 350, 686.
Niobium :—
Niobates, reactions of, with organic acids, 419.
Niobium separation :—
separation of, from tantalum, 423.
Nitration, 105.
Nitratoaquotetramminochromic nitrate. See under Chromium bases.
Nitratoaquotetramminocobaltic nitrate. See under Cobalt bases.
Nitroamine, dielectric polarisation of dioxan solutions of, 309.
Nitroamines, aromatic, diazotisation of, 1620.
Nitrogen *mono*xide, compressibility of, 621.
*di*oxide (*nitric oxide*), action of, with carbon monoxide, 56.
*pent*oxide, equilibrium of, with mercurous oxide and water, 1416.
Nitroso-β-alkylamino-ketones, catalytic decomposition of, 363.
Nitrosoamines, dipole moments of, 1255.
Nitroso-compounds, aromatic, liquid–solid equilibria between, 671.
*allo***Norcholanic acids,** chloro-, and their methyl ester, 1411.

O.

Obituary notices :—
Arthur Piper Adams, 1645.
Walter Craven Ball, 1645.
Obituary notices :—
Frederick William Fletcher, 1646.
Henry Chapman Jones, 468.
Sidney Alexander Kay, 1647.
William Harrison Martindale, 1648.
John Bryson Orr, 1649.
Thomas Cunningham Porter, 1650.
Alfred Rée, 471.
Henry Lloyd Snape, 473.
Charles Maddock Stuart, 469.
Claude Metford Thompson, 474.
John Watts, 1652.
Octadecane, polymorphism of, 1348.
Octadecyl alcohol, equilibria of, with hexadecyl and heptadecyl alcohols, 637.
Octadecyl alcohols, 9:10-*di*hydroxy-, isomeric, 246.
***trans*-Octahydronaphthyl-2-*trans*-β-decalone,** and its derivatives, 1480.
Octahydrophenanthrene, 1465.
derivatives, synthesis of, 1463.
β-Octanol, and its derivatives, optical rotation of, 376.
***n*-Octoic acid,** potassium salt, specific heat of aqueous solutions of, 551.
Olefines, elimination of, from quaternary ammonium compounds, 523.
Olefinic compounds, reactions of, 800, 962.
Oleic acid, conductivity of mixtures of, with its potassium salt and water, 928.
potassium hydrogen salt, anhydrous, 924.
sodium salt, emulsions of, with water and benzene or tetrahydronaphthalene, 1214.
Oleyl alcohol, oxidation of, 246.
Optical activity and tautomerism, 1493.
inversion, Walden's, 705.
in glucose series, 1076.
superposition, 696.
Optically active compounds, influence of solvents on rotation of, 760.
Organic compounds, rotatory dispersion of, 788, 951, 1179, 1444.
substitution in, 1133.
Organo-metallic compounds, formation of, by micro-organisms, 95.
Ostwald Memorial Lecture, 316.
Oxalatotetramminochromic salts, 522.
Oxalatotetramminocobaltic nitrate, 518.
Oxidation, electrolytic. See under Electrolytic.
3:4-Oxido-3:4-diphenyl-5:5-dimethyl*cyclo*pentanone, 2-hydroxy-, 725.
Oximes, isomerism of, 1037.
homogeneous catalysis of stereoisomerism in, 1439.
rearrangement of picryl ethers of, 806.
co-ordination compounds of, 840.
Oxy-β-amyrin, and its acetate, 1346.
***p*-Oxyarsinoadipanilic acid,** 92.
***p*-Oxyarsinomethylmalonanilic acid,** 1066.
***p*-Oryarsinomethylmalonanilide,** 1067.
Oxygen, density of, and of carbon monoxide, 846.
velocity of detonation of mixtures of, with carbon monoxide, 59.

P.

Palladium bases :—
Tetramminopalladous chloride, crystal structure of, 1092.
Palladium compounds, co-ordination, structure of, 1089.
Palladosulphines, 1294.
Palmitic acid, sodium hydrogen salts, anhydrous, 920.
Paraffins, preparation of, 346.
Pentadienophenanthrene, 1110.
***cyclo*Pentadienophenanthrene,** 1087.

3:5:7:2′:4′-Pentamethoxyflavan, 290.
3:3′:3″:3‴:4‴-Pentamethoxy-*ppp*-tetrabenzaldehyde, 141.
3:3′:3″:3‴:4‴-Pentamethoxy-*ppp*-tetrabenzoic acid, 141.
γ-2:3:4:5:6-Pentamethylpiperazine, and 1-nitroso-, and their salts and derivatives, 144.
γ-2:3:4:5:6-Pentamethylpiperazine-*d*-methylenecamphor, 144.
O-**Pentamethylrobinetin,** 269.
*cyclo***Pentan-1-ol-1-acetic acid,** ethyl ester, and its hydrazide, 362.
Pentane, αε-*di*bromo-, 1531.
*cyclo***Pentane aldehyde,** 362.
*cyclo***Pentane-1:1-diacetic acid,** thermal decomposition of, 1028.
1:2-*cyclo*Pentano-1-methyltetrahydronaphthalene, 1085.
*cyclo***Pentanone-2:3-dicarboxylic acid,** methyl ester, and its semicarbazone, 818.
1:2-*cyclo*Pentanotetrahydronaphthalene, 1085.
1:2-*cyclo*Pentanotetrahydrophenanthrene, 1086.
trans-**1:2-*cyclo*Pentanotetrahydrophenanthrene,** and its picrate, 1108.
Δ¹-*cyclo*Pentene-1:2-dicarboxylic acid, ethyl esters, 1632.
Δ^β-*n*-Pentenoic acid, 559.
Δ^α- and Δ^β-Pentenoic acids, lactones from, 577.
*cyclo***Pentenones,** hydroxy-, 720.
1:2-*cyclo*Pentenophenanthrene, and its derivatives, 1087, 1109.
β-*cyclo*Pentylpropionic acid, β-hydroxy-, ethyl ester, and its hydrazide, 362.
Phase volume theory, 1458.
10-Phenacyl-10-benzyl-2-methyl-5:10-dihydrophenarsazonium hydroxide, and its salts, 1636.
Phenacylhomopiperonylmethylamine, and its picrate, 278.
10-Phenacyl-2-methyl-10-*n*-propyl-5:10-dihydrophenarsazonium bromide, 1636.
Phenanthrene, equilibrium of, with anthracene, 650.
Phenanthrene-9-aldehyde, and its oxime and semicarbazone, 40.
Phenanthrene-9-carboxylic acid, and its methyl esters, 40.
9-Phenanthroyl chloride, 40.
β-(Phenanthroyl)propionic acids, 1014.
2-Phenanthryl bromomethyl ketone, 1013.
γ-(Phenanthryl)butyric acids, 1014.
9-Phenanthrylidenebenzylamine, 40.
9-Phenanthrylmethylamine, and its derivatives, 40.
2-Phenetidino-6-ethoxylepidines, 1032.
2-Phenetidinolepidines, 1032.
2-Phenetidino-6-methoxylepidines, 1032.
Phenol, vapour pressure and refractivity of mixtures of, with benzene, 1413.
conductivities of mixtures of, with aniline, *m*-cresol and *p*-toluidine, 1032.
action of chlorosulphonic acid on, at low temperature, 337.
Phenol, *m*-bromo-, dibromination of, 1053.
*tri*bromo-, *di*bromonitro-, and *tri*bromonitro-derivatives, 1054.
p-nitro-, condensation of, with formaldehyde, 699.
p-nitroso-, dipole moment of, 1255.
Phenols, nitrosation of, 660.
dihydric, depside esters of, 140.
Phenoxide, *o*-chloro-, pyridine derivative, dissociation of, in benzene, 193.
dissociation of, in *p*-chlorobenzene, 1431.
Phenoxyacetic acid-2-acetonitrile, 492.
Phenoxyacetic acid-2-resacetophenone, 492.
β-Phenoxyethylamine, and its salts, 272.
γ-Phenoxy-α-methylbutaldehyde, and its 2:4-dinitrophenylhydrazone, 1476.
γ-Phenoxy-α-methylbutyric acid, and its ethyl ester, and derivatives, 272.
ε-Phenoxy-γ-methylpentane-ββ-dicarboxylic acid, ethyl ester, 1475.
p-**Phenoxyphenyldi*iso*propylphosphine,** and its methiodide, 1044.
Phenyl *n*-butyl ether, *m*-nitro-, 661.
β-chloroethyl sulphides, *p*-bromo-, *p*-chloro-, *di*chloro-, 2:4:6-*tri*chloro-, and *p*-iodo-, 46.
β-chloroethyl sulphoxides, *di*chloro-, 47.
β-hydroxyethyl sulphides, *p*-bromo-, *p*-chloro-, *di*chloro-, and 2:4:6-*tri*chloro-, 46.
2-hydroxy-1-naphthyl sulphoxide, 2-nitro-, and its acetyl derivative, 1493.
4-hydroxy-*m*-tolyl sulphoxide, 2-nitro-, 1493.
Phenylacetic acid, β-naphthyl ester, 1462.
phenyl ester, 1461.
Phenylacetonitrile, 2-hydroxy-, 493.
2-Phenylacetylenylpyridine, nitro-derivatives, 82.
1-Phenylacetyl-Δ¹-*cyclo*hexene, 1106.
1-Phenylacetyl-2-naphthol, 1432.
Phenylamino-. See Anilino-.
α-Phenyl-*n*-amyldimethylamine, α-*m*-hydroxy-, and its derivatives, 1097.
Phenyl-*tert.*-amylnitrosoamine, and its *p*-toluenesulphonyl derivative, 950.
Phenyl-*p*-arsinic acid (p-*arsanilic acid*), derivatives of, 91.
Phenylarsinic acid, *p*-amino-, derivatives of, 1064.
Phenylarsono-*N*-methylenesulphurous acid, *p*-amino-, and 3-amino-4-hydroxy-, sodium salts, 1009.
Phenylazo-. See Benzeneazo-.
2-Phenylbenzopyrylium salts, preparation of, 1532.
Phenylbenzylamines, and their derivatives, 43, 44.
Phenylbenzylidenebenzylamines, 43, 44.
Phenyl benzyl ketone, 2:4-*di*hydroxy-, 4-benzoyl derivative, 1388.
Phenyl benzyl ketones, hydroxy-, and their 2:4-dinitrophenylhydrazones, 1461.
α-Phenyl-*n*-butyldimethylamine, *m*-hydroxy-, and its derivatives, 1097.
Phenyl-*tert.*-butylnitrosoamine, 948.
7-Phenylcarbamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1457.
1-Phenylcarbamyl-2:2:4-trimethyl-1:2-dihydroquinoline, 1328.
9-Phenylcarbazoles, 9-*o*- and *p*-nitro-, 1524, 1525.
***N*-Phenyl-*N′*-βββ-*tri*chloro-α-ethoxyethylureas,** nitro-, 32.
Phenyl-β-chloroethyl sulphone, *p*-bromo- and *p*-chloro-, 46.
p-nitro-, 48.
***N*-Phenyl-*N′*-βββ-*tri*chloro-α-hydroxyethylureas,** nitro-, and their diacetyl derivatives, 31.
***N*-Phenyl-*N′*-βββ-*tri*chloro-α-methoxyethylureas,** nitro-, 32.
Phenyl 5:8-*di*chloro-α-naphthyl ketone, 448.
3(or 4)-Phenyl-4(or 3)-*p*-chlorophenyl-5:5-dimethyl-Δ³-*cyclo*pentenone, 731.
Phenyl-γ-chloropropylsulphone, 48.
4-Phenylcoumarin-3-acetic acid, 7-hydroxy-, and its ethyl ester, 1469.
Phenyl-3:4-dihydrophthalazine-4-acetic acids, 1-hydroxyamino-, 1070.
Phenyl-2:4-dimethoxyphenylmethylenesuccinic acid, esters, 1470.
α-Phenyl-αγ-dimethylcrotyl alcohol, 1497.
4-Phenyl-3:3′-dimethyl-αβ-dinaphtha*spiro*pyran, 434.
4-Phenyl-αβ-dinaphtha*spiro*pyran, 433.
α-(β-Phenylethyl)adipic acid, 1084.
3-Phenyl-4-ethylcoumarin, 7-hydroxy-, and its acetyl derivative, 1462.

2-β-Phenylethyl-1-ethyl*cyclo*hexanol, 1465.
2-β-Phenylethyl-1-ethyl-Δ¹-*cyclo*hexene, 1465.
1-β-Phenylethyl*cyclo*hexanol, 1107.
β-Phenylethyl*cyclo*hexanols, and their derivatives, 1464.
2-β-Phenylethyl*cyclo*hexanone, and its derivatives, 1465.
1-β-Phenylethyl*cyclo*hexene, and its derivatives, 1464.
1-β-Phenylethyl-Δ¹-*cyclo*hexene, 1107.
α-Phenylethylidene-9-fluorenylamine, 1500.
β-Phenylethylmethylethylsulphonium iodide, 535.
2-β-Phenylethyl*cyclo*pentanol, 1085.
2-β-Phenylethyl*cyclo*pentanone, and its semicarbazone, 1084.
2-β-Phenylethyl*cyclo*pentan-1-one-2-carboxylic acid, ethyl ester, and its semicarbazone, 1084.
α-(β-Phenylethyl)pimelic acid, 1083.
β-Phenylethylpyridine, amino- and nitro-derivatives, 81.
2-β-Phenylethylpyridine, nitration of, 79.
β-Phenylethyltrimethylammonium hydroxide, and β-*p*-nitro-, salts, 524.
Phenylglyoxal, ω-bromo-, and ω-chloro-, bromophenylhydrazones of, 481.
chloronitro- and nitro-phenylhydrazones, 1625.
Phenyl-*tert.*-hexylnitrosoamine, 950.
3-Phenyl-4-methoxymethylcoumarin, 7-hydroxy-, and its acetyl derivative, 1462.
3-Phenyl-4-(4′-methoxystyryl)coumarin, 617.
3-Phenyl-4-(4′-methoxystyryl)-1:2-α-naphthapyrone, 617.
9-Phenyl-10-methylacridinium *per*chlorate, and its nitration, 484.
4-Phenyl-3′-methylbenzo-β-naphtha*spiro*pyran, 433.
4′-Phenyl-3′-methylbenzo-α-naphtha*spiro*pyran, 434.
2-Phenyl-3-methylbenzo-β-naphthyl*isospiro*pyran, 1264.
1-Phenyl-3-methylbenzthiazole, 2′-amino-, and its derivatives, 297.
γ-Phenyl-α-methylbutadiene, 1497.
***l*-Phenylmethylcarbinol,** *p*-toluenesulphonic and *p*-toluenesulphinic esters, Walden inversion with, 173.
3-Phenyl-4-methylcoumarin, 617.
3-Phenyl-4-methylcoumarin, 5:7-*di*hydroxy-, and its diacetyl derivative, 1461.
4-Phenyl-3- and -3′-methyl-αβ-dinaphtha*spiro*pyrans, 433.
3-Phenyl-4-(3′:4′-methylenedioxystyryl)coumarin, 617.
3-Phenyl-4-(3′:4′-methylenedioxystyryl)1:2-α-naphthapyrone, 617.
3-Phenyl-2-methylindanone, 1499.
3-Phenyl-2-methylindenone, and its 2:4-dinitrophenylhydrazone, 1499.
2-Phenyl-3-methylindoles, bromo-, 959.
3-Phenyl-2-methyl-1:4-βα-naphthapyrone, 1462.
β-Phenyl-α-methylpropionic acid, α-chloro-β-hydroxy-, 965.
β-hydroxy-, and its ethyl ester, 965.
1-Phenyl-3-methyl-5-pyrazolone, 4-*iso*nitroso-, compounds of, with metals, 840.
Phenylmethylselenetine salts, 127.
Phenyl β-naphthyl ketone, *m*-chloro-, and its derivatives, 447.
2-Phenyl-4-(3′:5′-*di*nitro-2′-hydroxybenzylidene)-oxazolone, 487.
2-Phenyl-4-(3′:5′-*di*nitro-2′-methoxybenzylidene)-oxazolone, 487.
δ-Phenyl-Δ^α-pentenoic acid, and γ-hydroxy-, 966.
1-Phenyl-3-(β-piperidinoethyl)-5-furylpyrazoline hydrochloride, 840.
β-Phenylpropiolic acid, addition of iodine to, 424.
β-Phenylpropionic acid, β-hydroxy-, and its ethyl ester, 964.
α-Phenylpropyldimethylamines, *m*-hydroxy-, and their derivatives, 1095.
α-Phenyl-Δ^α-propylene, β-chloro-, 965.
Phenylpyridinium chloride, bromo-, chloro- and iodo-*di*nitro-derivatives, 313.
3-Phenyl-4-styrylcoumarin, and its dibromide, 617.
3-Phenyl-4-styryl-1:2-α-naphthapyrone, 617.
Phenylsulphonylethylsulphonylethylthiomethane, 308.
ω-Phenylthioacetophenone phenylmercaptol, 1529.
7-Phenylthiodeoxybenzoin, 1529.
7-Phenylthiostilbene, 7′-hydroxy-, 7-acetyl derivative, 1529.
γ-Phenyl-*m*-tolylacetonitrile, 335.
δ-Phenylvaleric acid, α-chloro-β-hydroxy-, and β-hydroxy-, 966.
δ-Phenylvalerolactones, chlorohydroxy-, 967, 968.
9-Phenylxanthenol, 9-*p*-chloro- and 9-*p*-nitro-, 484.
9-Phenylxanthylium *per*chlorate, nitration of, and 9-*p*-chloro-, 482.
Phloracetophenone, ω-hydroxy-, 369.
Phloridzin, glucose from, 1171.
Phosphates. See under Phosphorus.
Phosphine. See Phosphorus *tri*hydride.
Phosphines, tertiary, 1043.
Phosphonium chlorides, thermal decomposition of, 989.
ethoxides, thermal decomposition of, 531.
Phosphorus *tri*hydride, thermal decomposition of, by tungsten and molybdenum, 586.
*pent*oxide as drying agent for hydrogen chloride, 1539.
Phosphates, 854, 871, 877.
Hypophosphoric acid, formula of, 48.
Photochemical processes, primary, 119, 1533.
Phthalazine, 1:4-*di*hydroxy-, diacetyl derivative, 1335.
Phthalazine series, tautomerism in, 1331.
Phthalic acid, 3-chloro-, 1533, 1643.
γ-Phthalimido-α-methylbutaldehyde, and its 2:4-dinitrophenylhydrazone, 1477.
γ-Phthalimido-α-methylbutyramide, 1477.
γ-Phthalimido-α-methylbutyronitrile, 1477.
Phthalobenzhydrylimide, 1501.
Phthalo-3-diphenylmethylimide, 44.
Phthalo-α- and **-β-naphthylmethylimides,** 41, 42.
Phthalyl bromide, tautomerism of, 1309.
fluoride, 15.
Physiological activity and molecular dissymmetry, 1094.
Physostigmine. See Eserine.
2-Picoline, reaction of, with aromatic aldehydes, 77.
Picratoaquotetramminochromic picrate, 522.
Picratoaquotetramminocobaltic picrate, 519.
***apo*Picropodophyllic acid,** 85.
α- and **β-*apo*Picropodophyllins,** 85.
***N*-Picrylacetanilide,** *p*-chloro-, 811.
2-Piperazino-4-methylquinoline, 8-chloro-, 301.
4-Piperidinoacridone, 1-nitro-, 1372.
Piperidinocupric diphenol, 1230.
2-Piperidino-*p*-cymene, 3:5-*di*nitro-, 980.
1-Piperidino-5-furyl-Δ⁴-penten-3-one hydrochloride, and its phenylhydrazone, 840.
2-Piperidino-4-methylquinoline, 8-chloro-, 301.
α-Piperidino-β-(2:4-*di*nitrophenyl)ethane picrate, 302.
Piperonylethyl-*p*-toluenesulphonamide, 278.
α-Piperonylidene-β-3:4-dimethoxybenzoylpropionic acid, lactone, 1088.
Piperonylmethylenedioxynaphthalene, *tri*bromo-, and nitro-, 1531.
Platinum, energy of catalysis on, 502.
Platinum bases (*platinammines*), 1056.
chelated, 1335.
Diamminoplatinic tetrachlorides, 1093.
Tetramminoplatinous chloride, crystal structure of, 1093.

Platinum compounds, co-ordination, structure of, 1089.
Platinic chloride, action of sodium hydroxide on, in solution, 1429.
Platosulphines, 1294.
Podophyllomerol, 86.
Podophyllomeronic acid, 85.
Podophyllotoxin, 83.
Polar reactions. See under Reactions.
Polarisation, dielectric, 87, 309, 1252.
electric, coefficients of, and their interpretation, 1341.
Polydepsides, 140.
Polyhalides, 181.
Potassium *di*bromoiodide, action of ozone on, 183.
hydroxide, action of, with alkyl halides in ethyl alcohol, 258.
mercuri-iodide, action of ammonia on, 1045.
nitrate, equilibrium of, with ammonium and lead nitrates, 199.
with barium and calcium nitrates, 236.
sulphite, electrolytic reduction of, to dithionate, 829.
Potassium organic compounds :—
Potassium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 841.
Potential, determination of, with glass electrodes, 1200.
Pratol. See 4′-Methoxyflavone, 7-hydroxy-.
Priestley, *Joseph*, bicentenary of, 896.
Primetin, attempted synthesis of, 1621.
Primeverin, 1618.
Propane, ignition of mixtures of, with air, 1240.
***n*-Propane-$\alpha\alpha\beta$-tricarboxylic acid**, methyl ester and amides, and bromo-, and β-iodo-, methyl esters, 813.
Δ^{α}-Propene-$\alpha\alpha\beta$-tricarboxylic acid, amide and methyl ester, 813.
7-*iso*Propenyl-1:2-benzanthracene, dimeride of, 1410.
Propionic acid, β-iodo-, ethyl ester, preparation of, 216.
2-Propionoacetyl-4-methylphenol, 1388.
3-Propionyl-2:6-dimethylchromone, 1389.
***n*-Propyl alcohol**, partial vapour pressure of, in aqueous solutions, 674.
Propyl alcohol, *di*iodo-, formation of, from allyl alcohol, 1323.
Propyl selenite, 393.
Propylaminocupric diphenol, 1230.
γ-*iso*Propyl-γ-butyrolactone, preparation of, 584.
***n*-Propyldi-*n*-butylsulphonium salts**, 993.
2′-*iso*Propyldiphenyl, 2-hydroxy-2′-α-hydroxy-, 1403.
Propylene, ignition of mixtures of, with air, 1240.
Protosinomenine, and its picrolonate, 280.
Prototropy in cyclic systems, 720.
Purine nucleosides, constitution of, 662.
***isospiro*Pyrans**, 1264.
1-Pyrenoyl-*o*-benzoic acid, 403.
β-1-Pyrenoylpropionic acid, and its ethyl ester and semicarbazone, 402.
γ-1-Pyrenylbutyric acid, and its lactone, 402.
Pyridine, additive compounds of, 313.
addition of methyl iodide to, 1237.
compounds of, with triphenylmethyl halides, 76.
o-chlorophenoxide, dissociation of, in benzene, 193.
in *p*-dichlorobenzene, 1431.
Pyridinoplatinous chloride, α-hydroxylamino-, 1058.
5-(3-Pyridyl)pyrazole, and its salts, and its 3-carboxylic acid, 350.
5-(3-Pyridyl)pyrazole, 4-bromo-3-nitro-, 3-iodo-, and 3- and 4-nitro-, and their derivatives, 686.
4-nitro-, from oxidation of nicotine, 350.
Pyrocatechol bis-(3′:4′-dimethoxy-*p*-dibenzoyl) ether, 141.
Pyrones, and thio-, dielectric polarisation of benzene solutions of, 87.
Pyrousnic acid, 1173.
Pyrrole, dipole moment of, 1259.
Pyrylium salts, synthesis of, 370.
halogeno-, preparation of, 1532.

Q.

Quebrachine. See Yohimbine.
Quinaldine cuprichloride, 999.
Quinaldine, 4-chloro-, condensation of, with anthranilic acid, 390.
Quinene cuprichloride, 999.
Quinidine cuprichloride, 999.
Quinine cuprichloride, 999.
Quinol bis-(3:4″-dimethoxy-*pp*-tribenzoyl) ether, 142.
bis-(4′-methoxy-*p*-dibenzoyl), -(3′:4′-dimethoxy-*p*-dibenzoyl), and -(3:3′:4′-trimethoxy-*p*-dibenzoyl) ethers, 141.
Quinoline derivatives, 1087.
cuprichloride, 999.

R.

Radium, effect of emission from, on decomposition of solids, 1398.
Reactions, mechanism of, 1357.
aromatic, in relation to electronic theory of organic reactions, 1120.
bimolecular, in solution, 1237.
elimination, influence of poles and polar linkings on, 66, 67, 68, 69, 75, 523, 526, 531, 533, 989, 991, 1571.
organic, electronic theory of, 1120.
polar, electrostatic factors operating in, 1551.
side-chain, influence of nuclear substituents on, 1248.
Reactivity of adjacent atoms or groups, influence of sulphur atoms on, 261.
Reformatsky reaction, 362, 827.
Reimer-Tiemann reaction, 496.
Report of the Council, 451.
Resacetophenone, acyl derivatives of, 1384.
Resacetophenone, ω-hydroxy-, and its derivatives, 372.
Resinols, 1345.
Resorcinol bis-(4′-methoxy-*p*-dibenzoyl) and -(3′:4′-dimethoxy-*p*-dibenzoyl) ethers, 141.
n-butyl ethers, nitroso-, 661.
Reychler's acid, constitution of, 823.
Rhodamine-*B*, blue sodium salt of, 1264.
Rings, chelate, replacement of dialkylthallium by trimethylplatinum in, 21.
Robinetin, and its penta-acetyl derivative, 269.
Robinia pseudacacia, colouring matter from, 268.
Rotation of optically active compounds, influence of solvents on, 760.
Rotatory dispersion. See under Dispersion.
Rotenone, and its derivatives, 489, 1163.
Ruberythric acid, 1167.
Rubidium organic compounds :—
Rubidium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.

S.

Salicylaldehyde, condensation of, with benzoylacetone, 1197.
diphenylacetal, 498.
Salicylaldehyde, *di*nitro-, and its derivatives, 486.

Salicylaldoxime, use of, in separation of copper and nickel, 895.
Salicylic acid, 3-bromo- and 3-chloro-5-nitro-, 700.
Salts, conductivity of, in non-aqueous solvents, 645.
Sandmeyer reaction, prevention of diaryl formation in, 1620.
Selachyl alcohol, constitution of, 165.
Selenium, dehydrogenation with, as method of determining ring structure, 352.
Selenium *di*oxide as oxidising agent, 391.
action of, on bile acids and sterols, 387.
Selenophen, preparation of, 1644.
1:4-Selenothian, 1529.
Selenoxan, physical constants of, 1530.
Silicon organic compounds, 1040.
Silver nitrate and oxide, constitution of ammoniacal solutions of, 1050.
thiosulphate, equilibrium of, with sodium thiosulphate and water, 1423.
Soaps, acid, phase-rule equilibria of, 920, 924.
Sodium carbonate, equilibrium of, with calcium carbonate and water, 1160.
hydroxide, action of, on platinic chloride in solution, 1429.
*ortho*phosphates, complex, 877.
rhodiochloride dihydrate, 417.
sulphate, equilibria of, with cobalt and nickel sulphates and water, 943.
thiostannates, 1580.
thiosulphate, equilibrium of, with silver thiosulphate and water, 1423.
reaction of, with ethyl iodide, 1576.
Sodium organic compounds :—
Sodium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 841.
Solids, effect of emission from radium on decomposition of, 1398.
thermal decomposition of, 1393.
Solubility of aliphatic alcohols in water, 674.
Solutions, binary, theory of, 674.
Solvents, action of, 376, 1217.
specificity of, in electrolytic dissociation, 1360.
Sorbic acid, catalytic hydrogenation of, 696, 885.
Sparteine, structure of, 644.
l-**Sparteine** *per*chlorate, 510.
Stereochemistry in relation to physics, 1366.
Sterols, structure of, and bile acids, 626.
action of selenium dioxide on, 387.
compounds related to, 607, 1081, 1098.
Sterol group, 302, 1410.
Stigmasterol, structure of, 635.
2-Stilbazole, *mono-* and *di*-nitro-derivatives, 82.
2-nitro-, nitrate, 78.
2-Stilbazolealkine, 3′-nitro-, 78.
Strychnine, 486.
Strycholamide, *di*nitro-, synthesis of, 486.
Styphnic acid, lead salt, thermal decomposition of, 1397.
4-Styrylcoumarin, 617.
Styrylpyrylium salts, 430, 1263.
Styrylquinoline, 3′:5′-*di*nitro-, 315.
Substance, $C_4H_{12}N_2Cl_2Pt$, from tetramethylenediamine and potassium chloroplatinite, 1341.
$C_5H_{14}N_2Cl_2Pt$ from pentamethylenediamine and potassium chloroplatinite, 1341.
$C_{16}H_9O_3N$, and its derivatives, from degradation of Höchst Yellow R., 1000.
$C_{24}H_{35}O_5N_3$ from autocondensation of aminoveratroylpropionic acid, 1469.
Substitution in compounds with two or more phenyl groups, 968.
in organic compounds, 1133.
nuclear, influence of, on side-chain reactions, 1248.
Succinanil-*p*-arsonic acid, 93.
Succinic acid, α-phenylcrotyl esters, 1498.
Succinic acids, *di*chloro-, decomposition of, 1260.
Sugars, aldehydic, rotatory dispersion and circular dichroism of, 1179.
Sulphamide, complex metallic salts of, 412.
5-Sulpho-3-aminobenzoic acid, 1374.
Sulpharsphenamine. See Sulphosalvarsan.
5-Sulpho-3-diazobenzoic acid, 1374.
5-Sulpho-3-hydroxybenzoic acid, and its salts, 1373.
5-Sulpho-3-methoxybenzoic acid, and its salts, 1374.
Sulphomethoxybenzoic acids, and their salts, 1378.
Sulphonium compounds, elimination of the *tert.*-butyl group from, 1571.
5-Sulpho-3-nitrobenzoic acid, and its salts, 1373.
Sulphonium hydroxides, thermal decomposition of, 533, 991.
Sulphosalvarsan (*sulpharsphenamine*), constitution of, 1003.
Sulphur atoms, influence of, on reactivity of adjacent atoms or groups, 261.
mobility of groups containing, 306.
colloidal, sols, ionic interchange in, 1022.
action of, on *o*-toluidine, 296.
Sulphur chlorides, analysis of, 1547.
*di*oxide, compressibility of, 621.
Dithionates, formation of, from electrolytic reduction of sulphites, 829.
determination of, volumetrically, 5.
Surface tension, measurement of, 1449.
Systems, cyclic, anionotropy and prototropy in, 720.

T.

Tantalum :—
Tantalic acid, 419.
Tantalum separation :—
separation of, from niobium, 423.
Tar, coal, cancer-producing hydrocarbon from, 395.
Tartaric acid, synthesis of, 45.
thorium salt, alkaline solutions of, 5.
ethyl ester, rotation of, 1217.
nitrobenzyl esters, and their derivatives, rotation dispersion of, 760.
Tartronic acid, preparation of, 643.
Tautomerisation and optical activity, 1493.
in relation to electronic theory of organic reactions, 1120.
prototropic, 37.
effect of nuclear halogen substitution on, 1117.
in carbonyl compounds, 217, 220, 890.
Tellurophen, attempted preparation of, 1644.
Tephrosic acid, structure of, 1163.
Terephthalyl bromide, 1313.
3-Tetra-aceto-*p*-glucosido-4-methylglyoxaline, and its methiodide, 665.
Tetra-aceto-β-glucosidotheophylline, and its reactions, 666.
Tetrahydroanagyrine, and its perchlorate, 509.
1:2:3:10-Tetrahydrocarbazole, 10-hydroxy-, 299.
Tetrahydroderrisic acid, 1165.
Tetrahydronaphthalene, emulsions containing, 1214.
Tetrahydropentindole, 9:10-*di*hydroxy-, and its derivatives, 300.
1:2:3:4-Tetrahydrophenanthrene, 4-hydroxy-, 404.
Δ^2-Tetrahydro*iso*phthalic acid, and its ethyl ester, 1630.
Δ^1- and Δ^2-Tetrahydrophthalic acids, and their ethyl esters, 1633.
Tetrahydrotubanol, 1164.
1:2:3:4-Tetrahydroxanthone, reactions of, 232.
Tetrahydroxanthone, 7-amino-, 7-bromo-, *di*bromo-, 7-chloro- and 7-nitro-, 233.

3:4:4′:6′-Tetramethoxybenzylideneacetophenone, 2′-hydroxy-, 290.
2:3:8:9-Tetramethoxy-5:6:11:12-dibenzperylene-4:10-quinone, 1519.
3:4:3′:4′-Tetramethoxydiphenic acid, ethyl ester, 1624.
3:3′:4′:5′-Tetramethoxyflavone, 7-hydroxy-, and its acetyl derivative, 269.
3:3′:4:4′-Tetramethoxyhelianthrone, 1518.
4:5:6:4′-Tetramethoxy-3-phenylcoumarone, 375.
3:4:4′:6′-Tetramethoxy-β-phenylpropiophenone, 2′-hydroxy-, 290.
2:3:11:12-Tetramethoxy-6:7:15:16-tetrahydro-5:18:9:14-dibenzpyridocoline methiodide, 1585.
3:3′:3″:4″-Tetramethoxy-*pp*-tribenzaldehyde, 141.
3:3′:3″:4″-Tetramethoxy-*pp*-tribenzoic acid, and its chloride, 141.
Tetramethylammonium salts, conductivity of, in ethyl and methyl alcohols, 1207.
Tetramethylascorbic acid, 1287.
α- and **β-Tetramethyldiethylferrocyanogen** mercuriiodides, 103.
3:3′-Tetramethylenedi-β-naphtha*spiro*pyran, 434.
***O*-Tetramethylgyrophoric acid,** methyl ester, synthesis of, 493.
2:3:4:6-Tetramethyl α-methylaltrose, 1080.
2:3:5:6-Tetramethylpiperazines, stereoisomeric, and their derivatives, 143.
Tetraphenylsilicane, preparation of, 1043.
Thallium compounds, applications of, in organic chemistry, 21.
Thallium organic compounds :—
Thallium diphenol, 1229.
4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
Theobromine methochloride, 668.
Theophylline *l*-arabinoside, structure of, 640.
Theophylline, nitro-, 642.
Thio-ketones, dielectric polarisation of benzene solutions of, 87.
Thiostannates. See under Tin.
Thioureas, dielectric polarisation in dioxan solutions of, 87.
Thioxan, physical constants of, 1530.
Tin :—
Thiostannates, 1580.
Toluene, 2:3-*di*nitro-, lability of the 2-nitro-group in, 500.
***p*-Toluenesulphonic acid,** 4-nitro-*o*-tolyl ester, and *o*-nitro-, 4:5-*di*nitro-*o*-tolyl ester, 1166.
Toluene-4-sulphonic acid, *o*-nitro-, salts of, 1377.
2-*p*-Toluenesulphonyl β-benzylglucoside, and its triacetyl derivative, 225.
2-*p*-Toluenesulphonyl β-methylglucoside, 225.
2-*p*-Toluenesulphonyl 3:4:6-triacetyl glucosidopyridinium *p*-toluenesulphonate, 225.
***o*-Toluidine,** action of, with sulphur, 296.
***p*-Toluidine,** conductivity of mixtures of, with phenol, 1032.
***p*-Toluo-2:4:6-*tri*nitro-*m*-tolyl-*p*-toluidide,** 811.
***p*-Toluo-*N*-picryl-*p*-toluidide,** 811.
β-*m*-Tolylamino*iso*butyl methyl ketone, nitroso-, 366.
***N*-Tolyl-*N*′-βββ-*tri*chloro-α-ethoxyureas,** 31.
***N*-Tolyl-*N*′-βββ-*tri*chloro-α-hydroxyethylureas,** and their diacetyl derivatives, 31.
***N*-Tolyl-*N*′-βββ-*tri*chloro-α-methoxyethylureas,** 31.
***r*-*o*-** and **-*m*-Tolyldeoxybenzoins,** 335.
***o*-Tolyl-3:4-dihydrophthalazine-4-acetic acid,** 1-hydroxy-4′-amino-, 1070.
***o*-** and ***m*-Tolyl diphenylmethyl ketones,** 335.
Tolylhydrobenzoins, dehydration of α-forms of, 332.
Tomatoes, colouring matter of stems of, 1528.
3:4:6-Triacetyl β-benzylglucoside, 225.
Tri-*sec*.-butylphosphine, 1044.
Tricarbocyanines, 189.
Tricin, synthesis of, 1644.
Triethylarsonium picrate, hydroxy-, 100.
Triethylphosphine, oxidation of, 1231.
Triethylsulphonium salts, 992.
1:2:3-Triketo-1-phenylbutane, 4-*mono*- and 4:4-*di*bromo-, bromophenylhydrazones of, 481.
nitrophenylhydrazones, 1626.
αβγ-Triketo-γ-phenyl-*n*-butyric acid, and its esters, nitrophenylhydrazones, 1626.
2:4:6-Trimethoxybenzoic acid, methyl ester, 612.
2:4:4′-Trimethoxybenzylideneacetophenone, 2′-hydroxy-, 290.
5:5′:8′-Trimethoxy-4-carbethoxy-2:3(3′:2′)-indenobenzopyrylium chloride, 7-hydroxy-, colour base of, 611.
7:3′:4′-Trimethoxyflavanone, 3-chloro-, 290.
3′:4′:5′-Trimethoxyflavone, and 6-hydroxy-, 1075.
5:7:4′-Trimethoxyflavylium *per*chlorate, 3′-amino-3-hydroxy-, 27.
2:4:6-Trimethoxy-3-methylbenzoic acid, methyl ester, 442.
4:6:4′-Trimethoxy-3-methylchalkone, 2-hydroxy-, 443.
5:7:4′-Trimethoxy-8-methylflavanone, 444.
5:7:4′-Trimethoxy-8-methylflavylium ferrichloride, 442.
3:4:5-Trimethoxyphenacyl bromide, 375.
3:4:5-Trimethoxyphenyl *p*-methoxyphenacyl ether, and its cyanohydrin, 375.
3:4:5-trimethoxyphenacyl ether, 375.
2:4:2′-Trimethoxy-β-phenylpropiophenone, 289.
Trimethoxy *l*-threonamide, 1285.
Trimethylamine, compounds of, with triphenylmethyl halides, 76.
Trimethylarsine, and its salts, 95, 99.
Trimethylarsonium salts, hydroxy-, 99.
2:3:7-Trimethylcoumarone-5-carboxylic acid, 4:6-*di*-, hydroxy-, methyl ester, and its picrate, 720.
2:2:5″-Trimethyldibenzopyran, 1404.
2:2:4-Trimethyl-1:2-dihydroquinoline, and its acetyl derivative, and chloro-derivatives, 1328.
Trimethylene*di*aminoplatinic chlorides, 1339.
β-Trimethylene*di*aminoplatinous chlorides, 1339.
2:3:4- and **2:3:6-Trimethyl glucose,** preparation of, 737.
2:4:6-Trimethylphenyldimethylarsine, and its derivatives, 1592.
Trimethylphloridzin, and its *O*-tetra-acetyl derivative, 1172.
(Trimethylplatini)acetoacetic acid, ethyl ester, 22.
Trimethylplatinum chloride and iodide, 1294.
Trimethylplatinum benzoylacetone, 22.
Trimethylplatinum dipropionylmethane, 22.
1:5:8-Trimethyl-1:2:3:4-tetrahydro-1-naphthol, 436.
2:2:4-Trimethyl-1:2:3:4-tetrahydroquinoline, 3:4:6:8-*tetra*bromo-, 1329.
Trimethyltheophylline arabinoside, 641.
Trimethyl *l*-threonic acid, amide and methyl ester, 1284.
Triphenylenecarboxylic acid, and its methyl ester, 404.
ααβ-Triphenylethyldimethylamine, and its salts, 74.
ααβ-Triphenylethylene, β-bromo-, 74.
ααβ-Triphenylethyltrimethylammonium salts, 74.
Triphenylmethane, phosphorus derivatives, 776.
Triphenylmethyl halides, action of tertiary amines on, 75.
Triphenylmethyl*di*chlorophosphine, 783.
Triphenylmethylchloropyrophosphonic acid, ethyl ester, 781.
6-Triphenylmethyl-2:3-dimethyl α-methylglucoside, and its derivatives, 638.
Triphenylmethylhydrogenphosphonic acid, esters, 783.
Triphenylmethylphosphonic acid, methyl esters, 781.
Triphenylmethylpyrophosphonic acid, and its silver salt and esters, 784.
Tri*iso*propylphosphine, 1044.
Tri-*n*-propylsulphonium salts, 992.

Tripyridinoplatinous chloroplatinite, α-hydroxylamino-, 1059.
Trisethylsulphonylmethane, 308.
Tris-(3:3′:3″:4″-tetramethoxy-*pp*-tribenzoyl)2:3:4-*tri*-hydroxybenzaldehyde, 142.
Tropane, aromatic derivatives of, 553.
Tungsten, thermal decomposition of phosphine by, 586.

U.

Unsaturated compounds, surface films of, 338.
catalytic hydrogenation of, 687.
conjugated, addition to, 885.
Ureas, dielectric polarisation in dioxan solutions of, 87.
Usneol, 714.
Usnetic acid, 1173.
Usnetinic acid, 1177.
Usnetol, 1173.
Usnic acid, 437, 714, 1173.

V.

δ-*n*-**Valerolactone,** preparation of, 583.
Vanadium :—
Vanadates, precipitation of, 512.
Vanadium determination :—
determination of, 512.
Vanillylethylamines, 278.
o-**Vanillylmethylamine,** and its *p*-toluenesulphonamide, 278.
Velocity of reaction in solution, 258.
Veratroylacetoacetic acid, ethyl ester, 1471.
αα-**Veratroylacetylsuccinic acid,** ethyl ester, 1471.
4-Veratroylcoumarin-3-acetic acid, 7-hydroxy-, ethyl ester, 1471.
α-**Veratrylidene-β-3:4-dimethoxybenzoylpropionic acid,** α-6-nitro-, lactone, 1088.
Vinylacetic acid, dissociation constant of, 734.
1-Vinylacetylene, 2-iodo-, synthesis and properties of, 741.
β-**Vinylacrylic acid,** hydrogenation of, 885.

W.

Walden inversion, 705, 1076.
Water vapour, specific heat of, at high temperatures, 882.
Water-gas. See under Gas.

X.

Xanthosine, preparation of, from guanosine, 667.
γ-*o*-**Xylyl-*n*-butyric acid,** 436.

Y.

Yohimbine, 614.

Z.

Zinc sulphate, equilibrium of, with ammonium sulphate and water, 943.
Zinc organic compounds :—
Zinc diethyl, oxidation of, 756.
dimethyl, oxidation of, 746.

FORMULA INDEX.

THE following index of organic compounds of known empirical formula is arranged according to Richter's system (see *Lexikon der Kohlenstoff-Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged—

Firstly, in groups according to the number of carbon atoms (thus C_1 group, C_2 group, etc.).

Secondly, according to the number of other elements besides carbon contained in the molecule (thus 5 IV indicates that the molecule contains five carbon atoms and four other elements).

Thirdly, according to the nature of the elements present in the molecule (given in the above order).

Fourthly, according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group-substances.

C_1 Group.

CH_4 Methane, speed of flame in mixtures of air and, 546; explosions of, with air, 758.
CO Carbon monoxide, density of, 846; flame phenomena of, 972; action of, with nitric oxide, 56.
CO_2 Carbon dioxide, compressibility of, 621.

1 II

CHN Hydrocyanic acid, potassium salt, action of, with platinic chloride, 1429.
CH_2O Formaldehyde, polymerisation of, 1193; condensation of, with *p*-nitrophenol, 699.
CH_2N_2 Diazomethane, preparation of, 363; absorption spectrum and photochemical decomposition of, 119.
CH_3I Methyl iodide, addition of, to pyridine, 1237.
CH_3F Methyl fluoride, compressibility of, 621.
CH_4O Methyl alcohol, partial vapour pressure of, in aqueous solutions, 674.
COS Carbonyl sulphide, oxidation of, 145, 208.

1 III

CHON Fulminic acid, mercury salt, thermal decomposition of, 1397, 1400.

C_2 Group.

C_2H_4 Ethylene, compressibility of, 621; ignition of mixtures of, with air, 1240.
C_2H_6 Ethane, ignition of mixtures of, with air, 1240.
C_2I_2 Di-iodoacetylene, dipole moment of, 652.

2 II

C_2H_2O Keten, absorption spectrum and photochemical decomposition of, 1533.
C_2H_4O Acetaldehyde, effect of, on conductivity of electrolytes in ethyl alcohol, 658.
$C_2H_4O_2$ Acetic acid, dissociation constant of, 313, 734, 1637.
$C_2H_4Cl_2$ Ethylene dichloride, dielectric constant of, 773.
$C_2H_2I_2$ *trans*-Di-iodoethylene, vapour pressure of, 430.
C_2H_5I Ethyl iodide, reaction of, with sodium thiosulphate, 1576.
C_2H_6O Dimethyl ether, compressibility of, 621.
Ethyl alcohol, effect of acetaldehyde on conductivity in, 658.
C_2H_6Zn Zinc dimethyl, oxidation of, 746.

2 III

C_2HOCl_3 Chloral, condensation of, with nitrophenyl- and tolyl-ureas, 30.
$C_2H_3O_2Br$ Bromoacetic acid, and its salts, elimination of bromine from, 1133.

2 IV

$C_2H_{12}O_7N_3Co$ Oxalatotetramminocobaltic nitrate, 518.

C_3 Group.

C_3H_6 Propylene, ignition of mixtures of, with air, 1240.
C_3H_8 Propane, ignition of mixtures of, with air, 1240.

3 II

C_3H_6O Allyl alcohol, reaction of, with iodine, 1323.
C_3H_8O *n*-Propyl alcohol, partial vapour pressure of, in aqueous solutions, 674.
C_3H_9As Trimethylarsine, and its salts, 99.

3 III

$C_3H_6OI_2$ Di-iodopropyl alcohol, formation of, from allyl alcohol, 1323.
C_3H_9ClPt Trimethylplatinum chloride, 1294.
$C_3H_{11}O_2As$ Hydroxytrimethylarsonium hydroxide, salts of, 99.

3 IV

$C_3H_{10}N_2Cl_2Pt$ β-Trimethylenediaminoplatinous chloride, 1339.
$C_3H_{10}N_2Cl_4Pt$ Trimethylenediaminoplatinic chloride, 1339.
$C_3H_{12}N_2Cl_2Pt$ β-Amminotrimethylenediaminoplatinous chloride, 1340.
$C_3H_{14}O_7N_4Co$ Malonatotetramminocobaltic nitrate, 518.
$C_3H_{14}N_2Cl_2Pt$ β-Amminotrimethylenediaminoplatinous hydrochloride, 1340.
$C_3H_{16}N_4Cl_2Pt$ β-Diamminotrimethylenediaminoplatinous chloride, 1340.
$C_3H_{16}N_4Cl_4Pt$ Diamminotrimethylenediaminoplatinic chloride, 1340.

C_4 Group.

C_4H_8 Butylene, ignition of mixtures of, with air, 1240.
C_4H_{10} Butane, ignition of mixtures of, with air, 1240.

4 II

C_4H_3I 2-Iodo-1-vinylacetylene, 741.
C_4H_4Se Selenophen, preparation of, 1644.
$C_4H_6O_2$ Vinylacetic acid, dissociation constant of, 734.
$C_4H_6O_3$ Acetic anhydride, ketonic activity of, 1197.
$C_4H_6O_6$ Tartaric acid, synthesis of, 45; thorium salt, alkaline solutions of, 5.
$C_4H_{10}O$ *n*-Butyl alcohol, partial vapour pressure of, in aqueous solutions, 674.
$C_4H_{10}S$ Diethyl sulphide, dipole moment of, 652.
$C_4H_{10}Zn$ Zinc diethyl, oxidation of, 756.
C_4O_4Ni Nickel carbonyl, dipole moment of, 652.

4 III

$C_4H_5OBr_3$ ααβ-Tribromobutaldehyde, and its monohydrate, 995.
$C_4H_6O_2Cl_2$ 2:3-Dichlorodioxan, 1598.
$C_4H_6O_2N_2$ Methoxymalondiamide, 1628.
C_4H_6SSe 1:4-Selenothian, 1529.
$C_4H_9ON_3$ Acetone semicarbazone, hydrolysis of, 204.
$C_4H_{10}OS$ Diethylsulphone, dipole moment of, 652.
$C_4H_{11}O_2As$ Hydroxydimethylethylarsonium hydroxide, salts of, 100.
$C_4H_{11}IS$ Dimethylethylsulphonium iodide, 535.

4 IV

$C_4H_5OClBr_2$ α-Chloro-αβ-dibromobutaldehyde, and its monohydrate, 994.
$C_4H_5OCl_2Br$ αβ-Dichloro-α-bromobutaldehyde, and its monohydrate, 994.
$C_4H_{11}Cl_4AsHg_2$ Dimethylethylarsine dimercurichloride, 101.
$C_4H_{12}N_2Cl_2Pt$ Substance, from tetramethylenediamine and potassium chloroplatinite, 1341.
$C_4H_{16}N_4Cl_2Pt$ Bisethylenediaminoplatinous chloride, 1092.

C_5 Group.

C_5H_5N Pyridine, addition of methyl iodide to, 1237; compounds of, with triphenylmethyl halides, 76.
$C_5H_8O_2$ Allylacetic acid, preparation of, 582.
Δ^{β}-*n*-Pentenoic acid, 559.
$C_5H_8O_4$ Methyl hydrogen methylmalonate, 1066.
$C_5H_{10}Br_2$ αε-Dibromopentane, 1532.
$C_5H_{12}O$ α-Amyl alcohol, optical rotation of, 376.

5 III

$C_5H_7O_3Cl$ α-Carbomethoxypropionyl chloride, 1066.
$C_5H_7N_2Cl$ Base, from methylglyoxal and formalin, 665.
$C_5H_9O_2I$ Ethyl β-iodopropionate, preparation of, 216.
$C_5H_9O_3Cl$ Chlorohydroxymethylbutyric acids, 805, 806.
$C_5H_{10}O_4N_2$ *d*-α-Hydroxy-β-methoxysuccindiamide, 643.
$C_5H_{13}IS$ Dimethylpropylsulphonium iodides, 535.
$C_5H_{14}OS$ Methyldiethylsulphonium hydroxide, picrate of, 992.

5 IV

$C_5H_8O_2NBr_3$ Form-ββγ-tribromo-α-hydroxybutylamide, 995.
$C_5H_9O_2N_2Br_3$ ββγ-Tribromo-α-hydroxybutylurea, 995.
$C_5H_{10}ON_3Cl$ 3-Chlorobutan-2-one semicarbazone, 717.
$C_5H_{11}N_3Cl_2Pt$ α-Chlorodiamminopyridinoplatinous chloride, 1058.
$C_5H_{14}N_2Cl_2Pt$ Substance, from pentamethylenediamine and potassium chloroplatinite, 1341.
$C_5H_{18}N_4Cl_2Pt$ β-Ethylenediaminotrimethylenediaminoplatinous chloride, 1339.

$C_5H_{18}N_4Cl_4Pt$ Ethylenediaminotrimethylenediaminoplatinic chloride, 1339.
$C_5H_{18}N_4Cl_6Pt_2$ β-Ethylenediaminotrimethylenediaminoplatinous chloroplatinite, 1339.
$C_5H_{20}N_4Cl_4Pt$ β-Ethylenediaminotrimethylenediaminoplatinous dihydrochloride, 1339.

5 V

$C_5H_9ON_2Cl_2Pt$ α-Hydroxylaminopyridinoplatinous chloride, 1058.
$C_5H_8O_2NClBr_2$ Form-β-chloro-βγ-dibromo-α-hydroxybutylamide, 995.
$C_5H_8O_2NCl_2Br$ Form-βγ-dichloro-β-bromo-α-hydroxybutylamide, 995.
$C_5H_9O_2N_2ClBr_2$ β-Chloro-βγ-dibromo-α-hydroxybutylurea, 995.
$C_5H_9O_2N_2Cl_2Br$ βγ-Dichloro-β-bromo-α-hydroxybutylurea, 995.

C_6 Group.

C_6H_6 Benzene, dielectric constant of, 773; vapour pressure and refractivity of mixtures of, with benzyl alcohol, *p*-dichlorobenzene, nitrobenzene and phenol, 1413.

6 II

$C_6H_4Cl_2$ Dichlorobenzene, vapour pressure and refractivity of mixtures of, with benzene, 1413.
C_6H_5Cl Chlorobenzene, dielectric constant of, 773.
C_6H_6O Phenol, conductivities of mixtures of, with aniline, *m*-cresol and *p*-toluidine, 1032; vapour pressure and refractivity of mixtures of, with benzene, 1413; action of chlorosulphonic acid on, at low temperatures, 337.
$C_6H_6O_3$ Acetylmalic anhydride, 795.
C_6H_7N Aniline, conductivity of mixtures of, with phenol, 1032; action of, with benzoyl chloride in carbon tetrachloride and hexane solutions, 1351.
$C_6H_8O_6$ Ascorbic acid, constitution of, and its salts, 1270; rotatory dispersion of, 1448, 1564.
d- and *l*-Ascorbic acids, synthesis of, 1422.
$C_6H_{10}O_5$ Methyl methoxymalonate, 1628.
$C_6H_{11}Br$ Diallyl hydrobromide, 817.
$C_6H_{12}Br_2$ Diallyl dihydrobromide, 817.
$C_6H_{15}P$ Triethylphosphine, oxidation of, 1231.
$C_6H_{16}N_2$ α-Amino-β-dimethylaminobutane, salts of, 348.

6 III

$C_6H_3OBr_3$ Tribromophenols, 1054.
$C_6H_3O_9N_3$ Styphnic acid, lead salt, thermal decomposition of, 1397.
$C_6H_3Cl_3S$ 2:4:6-Trichlorothiophenol, 47.
$C_6H_4O_2N$ Nitrobenzene, f.p. of, in benzene and *cyclo*hexane, 281.
$C_6H_4O_4N_2$ *m*-Dinitrobenzene, equilibrium of, with nitrobenzene, 669.
$C_6H_4NCl_3$ 2:4:6-Trichloroaniline, 142.
$C_6H_4N_6Fe$ Hydroferrocyanic acid, and its metallic salts, 1543.
$C_6H_5O_2N$ Nitrobenzene, dielectric constant of, 773; vapour pressure and refractivity of mixtures of, with benzene, 1413; viscosity of, 118; equilibrium of, with *m*-dinitrobenzene, 669; nitration of, 113.
$C_6H_5O_3N$ *p*-Nitrophenol, condensation of, with formaldehyde, 699.
$C_6H_9O_6N_3$ Δ^{α}-Propene-$\alpha\alpha\beta$-tricarboxylamide, 814.
$C_6H_{11}O_6N_3$ *n*-Propane-$\alpha\alpha\beta$-tricarboxylamide, 813.
$C_6H_{11}O_3Cl$ Ethyl α-methylacrylate chlorohydrin, 803.
$C_6H_{12}O_3N_2$ Methoxymalonomethylamide, 1628.
$C_6H_{14}O_2Se$ Propyl selenite, 393.
$C_6H_{15}IS$ Dimethyl-*tert.*-butyl sulphonium iodide, 1575.
Dimethylbutylsulphonium iodides, 535.
$C_6H_{16}OS$ Dimethyl-*tert.*-butylsulphonium hydroxide, decomposition of, and its picrate, 1575.
Triethylsulphonium hydroxide, picrate of, 992.
$C_6H_{17}OAs$ Hydroxytriethylarsonium hydroxide, salts of, 100.

6 IV

$C_6H_2O_9NBr_3$ Tribromonitrophenols, 1055.
$C_6H_3O_3NBr_2$ Dibromonitrophenols, 1055.
$C_6H_{10}O_2NBr_3$ Acet-$\beta\beta\gamma$-tribromo-α-hydroxybutylamide, 995.
$C_6H_{20}N_4Cl_2Pt$ β-Bistrimethylenediaminoplatinous chloride, 1339.
$C_6H_{20}N_4Cl_4Pt$ Bistrimethylenediaminoplatinic chloride, 1339.
$C_6H_{22}N_4Cl_4Pt$ β-Bistrimethylenediaminoplatinous dihydrochloride, 1339.

6 V

$C_6H_{10}O_2NClBr_2$ Acet-β-chloro-βγ-dibromo-α-hydroxybutylamide, 995.
$C_6H_{10}O_2NCl_2Br$ Acet-βγ-dichloro-β-bromo-α-hydroxybutylamide, 995.

C_7 Group.

$C_7H_6O_2$ Benzoic acid, dissociation constant of, 734.
C_7H_8O Benzyl alcohol, vapour pressure and refractivity of mixtures of, with benzene, 1413.
m-Cresol, conductivity of mixtures of, with phenol, 1032.
p-Cresol, action of chlorosulphonic acid on, at low temperatures, 337.

C_7H_9N Methylaniline, nitrosation of, 510.
o-Toluidine, action of, with sulphur, 296.
p-Toluidine, conductivity of mixtures of, with phenol, 1032.
$C_7H_{10}O_4$ *trans-dl*-Caronic acid, resolution of, 1223.
$C_7H_{10}O_7$ 3-Keto-*d*-glucoheptonofuranolactone, 1422.
$C_7H_{11}O_2$ *γ-iso*Propyl-*γ*-butyrolactone, 584.
$C_7H_{12}O_2$ *Δγ-iso*Heptenoic acid, preparation of, 584.
δ-*iso*Heptolactone, 585.
$C_7H_{12}O_4$ Ethyl hydrogen dimethylmalonate, 1617.
$C_7H_{12}O_6$ Methyl *d*-α-hydroxy-β-methoxysuccinate, 643.
$C_7H_{17}N$ *tert.*-Butylcarbinyldimethylamine, and its salts, 68.

7 III

$C_7H_4O_5N_2$ 3:5-Dinitrobenzaldehyde, 315.
$C_7H_4O_6N_2$ Dinitrosalicylaldehyde, 486.
C_7H_5OCl Benzoyl chloride, action of, with aniline in carbon tetrachloride and hexane solutions, 1351.
$C_7H_5OBr_3$ Tribromoanisoles, 1054.
$C_7H_5O_3As$ Benzaldehyde-*p*-arsenious oxide, 352.
$C_7H_5O_5N_3$ 3:5-Dinitrobenzaldoxime, 315.
$C_7H_6O_5N_2$ 2:6-Dinitro-*p*-cresol, 440.
4:5-Dinitro-*o*-cresol, 1166.
$C_7H_6O_6S$ 5-Sulpho-3-hydroxybenzoic acid, and its salts, 1374.
$C_7H_6N_2S$ 2-Diazotoluene 3-sulphide, 297.
$C_7H_7O_2N$ Salicylaldoxime, use of, in separation of copper and nickel, 895.
$C_7H_8O_2N_4$ 3:9-Dimethylxanthine, and its salts, 668.
$C_7H_6O_4N_2$ 2:3-Dinitrotoluene, lability of 2-nitro-group in, 500.
$C_7H_8O_4S$ *o*-Cresol-4-sulphonic acid, barium salt, 1377.
C_7H_6NCl *N*-Chloroacetanilide, photo-change of, in solvents, 240.
$C_7H_9O_4N$ Acid, from hydrolysis of ethyl αβ-dicyano-β-methylglutarate, 815.
$C_7H_{11}O_3Cl$ δ-Carbomethoxyvaleryl chloride, 91.
Ethyl hydrogen dimethylmalonyl chloride, 1617.
$C_7H_{13}ON_3$ *cyclo*Pentene aldehyde semicarbazone, 362.
$C_7H_{13}O_2Br$ Bromo-δ-methylhexoic acids, 576.
$C_7H_{14}O_2S_2$ Ethylsulphonylethylthioacetone, 308.
$C_7H_{14}O_4N_2$ *d*-α-Hydroxy-β-methoxysuccinomethylamide, 643.
$C_7H_{15}O_4N$ Trimethyl *l*-threonamide, 1284.
$C_7H_{16}O_4S_2$ Bisethylsulphonylethylthiomethane, 308.
$C_7H_{16}O_6S_3$ Trisethylsulphonylmethane, 308.
$C_7H_{17}IS$ Methylethyl*iso*butylsulphonium iodide, 535.
$C_7H_{18}OS$ Diethyl-*n*-propylsulphonium hydroxide, picrate of, 993.
Methyldi-*n*-propylsulphonium hydroxide, picrate of, 992.

7 IV

$C_7H_4O_5NCl$ 3-Chloro-5-nitrosalicylic acid, 700.
$C_7H_4O_5NBr$ 3-Bromo-5-nitrosalicylic acid, 700.
$C_7H_4O_5N_2S$ 5-Sulpho-3-diazobenzoic acid, 1374.
$C_7H_5OCl_2As$ Benzaldehyde-*p*-dichloroarsine, 352.
$C_7H_5O_5N_2Cl$ 4-Chloro-3:5-dinitroanisole, 827.
$C_7H_5O_7NS$ 5-Sulpho-3-nitrobenzoic acid, and its salts, 1373.
$C_7H_6O_6N_2S$ 5-Amidosulphonyl-3-nitrobenzoic acid, 1374.
$C_7H_7O_5NS$ *o*-Nitrotoluene-4-sulphonic acid, salts of, 1377.
5-Sulpho-3-aminobenzoic acid, 1374.
$C_7H_7O_5N_2S$ 5-Amidosulphonyl-3-nitrobenzamide, 1373.
$C_7H_8O_4N_2S$ 5-Amidosulphonyl-3-aminobenzoic acid, 1374.

7 V

$C_7H_3O_5NCl_2S$ 5-Chlorosulphonyl-3-nitrobenzoyl chloride, 1373.
$C_7H_4O_6NClS$ 5-Chlorosulphonyl-3-nitrobenzoic acid, 1373.
$C_7H_{10}O_6NSAs$ *p*-Aminophenylarsono-*N*-methylenesulphurous acid, sodium salt, 1009.
$C_7H_{10}O_7NSAs$ 3-Amino-4-hydroxyphenylarsono-*N*-methylenesulphurous acid, disodium salt, 1009.

C_8 Group.

$C_8H_7N_3$ 5-(3-Pyridyl)pyrazole, and its salts, 350.
C_8H_8O Acetophenone, dielectric constant of, 773.
$C_8H_8O_3$ Mandelic acid, acid salts of, 1016.
$C_8H_8O_4$ ω:2:4-Trihydroxyacetophenone, 372.
$C_8H_8O_5$ ω-Hydroxyphloracetophenone, 369.
$C_8H_8O_9$ 3-Hydroxy*cyclo*butane-1:1:2:2-tetracarboxylic acid, 1632.
$C_8H_{10}O_3$ Filicinic acid, 1617.
$C_8H_{10}O_4$ Tetrahydrophthalic acids, 1631, 1633.
$C_8H_{11}N$ Benzylmethylamine, picrate of, 349.
$C_8H_{12}O_4$ Homocaronic acid, synthesis of, 1225.

$C_8H_{12}O_6$ Dimethylascorbic acid, and its barium salt, 1286.
Methyl dimethoxymaleate, 1289.
$C_8H_{14}O_6$ Ethyl tartrate, rotation of, 1217.
$C_8H_{16}O_2$ *n*-Octoic acid, potassium salt, specific heat of aqueous solutions of, 551.
$C_8H_{16}O_5$ Methyl trimethyl *l*-threonate, 1284.
$C_8H_{18}O$ β-Octanol, optical rotation of, 376.

8 III

$C_8H_4O_2Br_2$ Phthalyl bromide, tautomerism of, 1309.
Terephthalyl bromide, 1313.
$C_8H_4O_2F_2$ Phthalyl fluoride, 17.
$C_8H_4N_2Cl_4$ 2:5-Dichlorobenzeneazo-ββ-dichloroethylene, 1490.
C_8H_5ON Benzonitrile, dielectric constant of, 773.
$C_8H_5O_4Cl$ 3-Chlorophthalic acid, 1533, 1643.
$C_8H_6O_2N_4$ Nitro-5-(3-pyridyl)pyrazoles, 687.
$C_8H_6O_6N_2$ 3:5-Dinitro-2-methoxybenzaldehyde, 487.
$C_8H_6N_2I$ 3-Iodo-5-(3-pyridyl)pyrazole, 687.
$C_8H_6Cl_4S$ 2:4:6-Trichlorophenyl β-chloroethyl sulphide, 47.
C_8H_7ON 2-Hydroxyphenylacetonitrile, 493.
$C_8H_7O_2Cl$ 6-Chlorobenzdioxin, 700.
$C_8H_7O_2I$ 6-Iodobenzdioxin, 700.
$C_8H_7O_5N_5$ 3:5-Dinitrobenzaldehyde semicarbazone, 315.
$C_8H_7Cl_3S$ Dichlorophenyl β-chloroethyl sulphides, 47.
$C_8H_8O_3S$ Thiolmethoxybenzoic acids, 1378.
$C_8H_8O_4N_2$ 2:6-Dinitro-*p*-cresol methyl ether, 440.
$C_8H_8O_5N_2$ 4:5-Dinitro-*o*-tolyl methyl ether, 1166.
$C_8H_8O_6N_4$ 3:5-Dinitro-*N*-nitrosomethyl-*p*-anisidine, 827.
$C_8H_8O_6S$ Sulphomethoxybenzoic acids, and their salts, 1374, 1378.
$C_8H_8O_{12}B$ Borotartaric acid, ammonium salt, 954.
$C_8H_6Cl_2S$ *p*-Chlorophenyl β-chloroethyl sulphide, 46.
$C_8H_9O_4N$ 6-Nitro-4-methoxy-*o*-cresol, 441.
$C_8H_9O_5N_3$ 3:5-Dinitromonomethyl-*p*-anisidine, 827.
$C_8H_9O_6Cl_3$ Ethyl trichloro-α′-hydroxyethyl α-anhydrotartrate, 796.
$C_8H_9O_{10}B$ Boromalic acid, potassium salt, 955.
$C_8H_{10}OS$ Thiolmethoxytoluenes, 1377.
$C_8H_{10}O_2N_2$ Nitrosomethyl-*p*-anisidine, 271.
$C_8H_{10}O_3N_2$ 6-Nitro-4-methoxy-*o*-toluidine, 441.
5-Nitro-2-methoxy-*p*-toluidine, 1167.
$C_8H_{10}O_4S$ 2-Methoxytoluenesulphonic acids, salts of, 1378.
$C_8H_{11}ON$ β-Phenoxyethylamine, and its salts, 272.
$C_8H_{16}O_5N_2$ *d*-Arabotrimethoxyglutardiamide, 642.
$C_8H_{20}OS$ Ethyldi-*n*-propylsulphonium hydroxide, picrate of, 993.
$C_8H_{20}NI$ *tert.*-Butylcarbinyltrimethylammonium iodide, 68.

8 IV

$C_8H_4ONCl_5$ Trichlorodichloroacetanilide, 143.
$C_8H_4O_5NCl$ 8-Chloro-6-nitro-4-ketobenzdioxin, 700.
$C_8H_4O_5NBr$ 8-Bromo-6-nitro-4-ketobenzdioxin, 700.
$C_8H_5O_2N_4Br$ 4-Bromo-3-nitro-5-(3-pyridyl)pyrazole, 687.
$C_8H_6O_4NCl$ 8-Chloro-6-nitrobenzdioxin, 700.
3-Nitro-4-methoxybenzoyl chloride, 26.
$C_8H_6O_4NBr$ 8-Bromo-6-nitrobenzdioxin, 700.
$C_8H_6O_4Cl_2S$ 3-Chlorosulphonyl-4-methoxybenzoyl chloride, 1380.
5-Chlorosulphonyl-3-methoxybenzoyl chloride, 1374.
$C_8H_7OCl_3S$ Dichlorophenyl β-chloroethyl sulphoxides, 47.
2:4:6-Trichlorophenyl β-hydroxyethyl sulphide, 47.
$C_8H_7O_5ClS$ Chlorosulphonylmethoxybenzoic acids, 1374, 1378.
$C_8H_8OCl_2S$ 2:5-Dichlorophenyl β-hydroxyethyl sulphide, 47.
$C_8H_8O_2Cl_2S$ *p*-Chlorophenyl β-chloroethylsulphone, 46.
C_8H_8ClBrS *p*-Bromophenyl β-chloroethyl sulphide, 46.
C_8H_8ClIS *p*-Iodophenyl β-chloroethyl sulphide, 47.
C_8H_9OClS *p*-Chlorophenyl β-hydroxyethyl sulphide, 46.
C_8H_9OBrS *p*-Bromophenyl β-hydroxyethyl sulphide, 46.
$C_8H_9O_3SCl$ 2-Methoxytoluenesulphonyl chlorides, 1377.
$C_8H_9O_5NS$ Amidosulphonylmethoxybenzoic acids, 1374, 1378.
$C_8H_{10}O_4N_2S$ 3-Amidosulphonyl-4-methoxybenzamide, 1380.
5-Amidosulphonyl-3-methoxybenzamide, 1374.
$C_8H_{11}O_2N_4Cl$ Theobromine methochloride, 668.
$C_8H_{11}O_3NS$ 2-Methoxytoluenesulphonamides, 1377.

8 V

$C_8H_8O_3ClBrS$ *p*-Bromophenyl β-chloroethylsulphone, 47.
$C_8H_8O_4NClS$ *p*-Nitrophenyl-β-chloroethylsulphone, 48.

C_9 Group.

$C_9H_6O_2$ β-Phenylpropiolic acid, addition of iodine to, 424.
C_9H_7N Quinoline, cuprichloride of, 999.
$C_9H_8O_2$ *cis*-Cinnamic acid, three forms of, 1453.
$C_9H_9N_3$ 3-Methyl-5-(3-pyridyl)pyrazole, and its salts, 351.
C_9H_9Cl β-Chloro-α-phenyl-Δ^{α}-propylene, 965.
$C_9H_{10}O_4$ 2:4-Dihydroxy-6-methoxy-3-methylbenzaldehyde, 719.
Methylphloracetophenone, 443.
$C_9H_{10}O_5$ 3-Carbethoxy-Δ^{2}-*cyclo*hexeneoxalic acid, 1631.
$C_9H_{12}O_3$ Methylphloroglucinol α-dimethyl ether, 441.
$C_9H_{12}O_4$ Ethyl hydrogen Δ^{1}-*cyclo*pentene-1:2-dicarboxylate, 1633.
$C_9H_{12}O_5$ Methyl *cyclo*pentanone-2:3-dicarboxylate, 818.
$C_9H_{12}O_6$ Methyl Δ^{α}-propene-$\alpha\alpha\beta$-tricarboxylate, 814.
$C_9H_{14}O_3$ *cyclo*Hexanone-2-propionic acid, 1015.
$C_9H_{14}O_4$ *cis*- and trans-*dl*-3-Carboxy-1:1-dimethyl*cyclo*propane-2-propionic acids, resolution of, and their salts, 1223.
$C_9H_{14}O_5$ Methyl β-keto-*n*-pentane-γδ-dicarboxylate, 814.
$C_9H_{14}O_6$ Methyl *n*-propane-$\alpha\alpha\beta$-tricarboxylate, 813.
$C_9H_{16}O_2$ α-*cyclo*Hexylpropionic acid, 1483.
$C_9H_{16}O_5$ Dimethyl anhydro-α-methylhexoside, 1081.
$C_9H_{18}O_6$ Trimethylglucose, preparation of, 737.
$C_9H_{20}N_2$ Pentamethylpiperazines, and their salts, 144.
$C_9H_{21}P$ Tri*iso*propylphosphine, 1044.

9 III

$C_9H_6O_5N_4$ 5:7-Dinitroindole-2-carboxyamide, 487.
$C_9H_7O_2N_3$ 5-(3-Pyridyl)pyrazole-3-carboxylic acid, and its picrate, 351.
$C_9H_7O_4N_3$ ω-Diazo-3-nitro-4-methoxyacetophenone, 26.
$C_9H_8O_2N_2$ ω-Diazo-*p*-acetylanisole, 375.
4-Hydroxy-1-methoxyphthalazine, 1334.
1-Hydroxy-3-methylphthalaz-4-one, 1334.
$C_9H_9O_3N_3$ α-Ketopropaldehyde nitrophenylhydrazones, 477.
$C_9H_9O_4N$ 2-Hydroxyphenylpyruvic acid oxime, 493.
$C_9H_9O_4I$ 6-Iodo-2:3-dimethoxybenzoic acid, 1623.
$C_9H_{10}O_2S$ Ethyl *p*-mercaptobenzoate, 1507.
$C_9H_{10}O_3N_4$ ω-Amino-α-ketopropaldehyde nitrophenylhydrazones, 479.
$C_9H_{10}O_3S$ Methylthiolmethoxybenzoic acids, 1378.
$C_9H_{10}O_5N_2$ 2:6-Dinitro-4-ethoxytoluene, 820.
$C_9H_{10}O_5S$ Methylsulphonylmethoxybenzoic acids, 1377.
$C_9H_{11}O_4N$ 6-Nitro-4-ethoxy-*o*-cresol, 821.
$C_9H_{11}O_5N_3$ Dinitrodimethyl-*p*-anisidines, 826.
$C_9H_{12}OS$ Methylthiolmethoxytoluenes, 1377.
$C_9H_{12}O_2S$ *p*-Anisyl β-hydroxyethyl sulphide, 47.
$C_9H_{12}O_3N_2$ 6-Nitro-4-ethoxy-*o*-toluidine, 820.
$C_9H_{13}O_2N$ *o*-Vanillylmethylamine, 278.
$C_9H_{13}O_6Br$ Methyl α-bromo-*n*-propane-$\alpha\alpha\beta$-tricarboxylate, 813.
$C_9H_{15}ON$ 1-Methyltropinone, 1511.
$C_9H_{16}O_3S$ *cyclo*Hexylsulphonylacetone, 308.
$C_9H_{17}ON$ α-*cyclo*Hexylpropionamide, 1483.
1-Methyl-ψ-tropine, and its salts, 1512.
$C_9H_{18}O_3Pt$ Ethyl (trimethylplatini)acetoacetate, 22.
$C_9H_{19}ON_3$ 1-Nitrosopentamethylpiperazine, salts of, 144.
$C_9H_{22}OS$ Tri-*n*-propylsulphonium hydroxide, picrate of, 992.

9 IV

$C_9H_7OCl_4Fe$ *iso*Benzpyrylium ferrichloride, 556.
$C_9H_4O_2N_3Br_5$ ββω-Tribromo-α-ketopropaldehyde 2:6-dibromo-4-nitrophenylhydrazone, 478.
$C_9H_5O_2N_3Br_3$ βω-Dibromo-α-ketopropaldehyde 2:6-dibromo-4-nitrophenylhydrazone, 478.
$C_9H_5O_2N_3Br_4$ ββω-Tribromo-α-ketopropaldehyde bromonitrophenylhydrazones, 478.
$C_9H_6O_2N_3Br_3$ ω-Bromo-α-ketopropaldehyde 2:6-dibromo-4-nitrophenylhydrazone, 478.
βω-Dibromo-α-ketopropaldehyde 2-bromo-4-nitrophenylhydrazone, 478.
ββω-Tribromo-α-ketopropaldehyde nitrophenylhydrazones, 478.
$C_9H_7O_2N_3Br_2$ βω-Dibromo-α-ketopropaldehyde nitrophenylhydrazones, 478.
α-Ketopropaldehyde 2:6-dibromo-4-nitrophenylhydrazones, 477.
$C_9H_7O_2N_3Br_3$ ω-Bromo-α-ketopropaldehyde 2-bromo-4-nitrophenylhydrazone, 478.
$C_9H_8O_2NAs$ Cinnamonitrile-*p*-arsonic acid, 352.
$C_9H_6O_2N_3Br$ ω-Bromo-α-ketopropaldehyde nitrophenylhydrazones, 478.
α-Ketopropaldehyde bromonitrophenylhydrazones, 477.
$C_9H_6O_4N_3Cl_3$ Nitrophenyl-*N'*-βββ-trichloro-α-hydroxyethylureas, 31.
$C_9H_{11}OClS$ *p*-Anisyl β-chloroethyl sulphide, 47.
$C_9H_{11}O_2ClS$ Phenyl γ-chloropropylsulphone, 48.

9 V

$C_9H_{11}O_2I_3SeHg$ Phenylmethylselenetine mercuri-iodides, 127.

C_{10} Group.

$C_{10}H_{18}$ Decalin, dipole moment of, 652.
*cyclo*Hexane*spirocyclo*pentane, 353.

10 II

$C_{10}H_{10}O_2$ 3:4-Dimethoxyphenylacetylene, 1466.
$C_{10}H_{10}O_5$ ω-Hydroxyresacetophenone, 372.
Methyl hæmatommate, 133.
$C_{10}H_{12}O_2$ *n*- and *iso*-Eugenols, refractive dispersion of, 557.
dl-Phenylmethylcarbinyl acetate, 177.
$C_{10}H_{12}O_3$ β-Hydroxy-β-phenyl-α-methylpropionic acid, 965.
$C_{10}H_{12}O_4$ 2:4-Dihydroxy-6-methoxy-3-methylacetophenone, 1178.
2:6-Dihydroxy-4-methoxy-3-methylacetophenone, 1179.
$C_{10}H_{12}O_5$ 2-Hydroxy-4:6-dimethoxy-3-methylbenzoic acid, 443.
$C_{10}H_{14}O_2$ *m*-Methoxyphenylethylcarbinol, 1094.
$C_{10}H_{14}O_3$ β-3:4-Dimethoxyphenylethyl alcohol, 1466.
4-Methoxy-6-ethoxy-*o*-cresol, 719.
6-Methoxy-4-ethoxy-*o*-cresol, 822.
$C_{10}H_{14}O_4$ Ethyl Δ^1-*cyclo*butene-1:2-dicarboxylate, 1632.
1-Ethyl-Δ^3-*cyclo*hexene-1:3-dicarboxylic acid, 1631.
2-Hydroxy-4:6-dimethoxy-3-methylbenzaldehyde, 442.
$C_{10}H_{14}O_5$ Heptane-1:3:7-tricarboxylic anhydride, 1015.
Methyl 2-methyl*cyclo*pentanone-2:3-dicarboxylate, 818.
$C_{10}H_{15}N$ *tert.*-Butylaniline, and its salts, 948.
$C_{10}H_{15}N_3$ Nicotine, oxidation of, 350.
$C_{10}H_{16}O_3$ β-*n*-Amylglutaric anhydride, 961.
Methyl *cyclo*hexanone-2-propionate, 1015.
$C_{10}H_{16}O_4$ Ethyl Δ^α-dihydromuconate, 890.
$C_{10}H_{16}O_6$ Methyl *n*-butanetricarboxylate, 818.
Tetramethylascorbic acid, 1287.
$C_{10}H_{18}O_3$ Ethyl β-hydroxy-β-*cyclo*pentylpropionate, 362.
$C_{10}H_{18}O_4$ β-*n*-Amylglutaric acid, 962.
$C_{10}H_{18}O_7$ Methyl *d*-arabotrimethoxyglutarate, 641.
$C_{10}H_{20}O$ γ-*cyclo*Hexyl-*sec.*-butyl alcohol, 1484.
*dl-neo*Menthol, optical resolution of, 167.
dl- and *d-iso*Menthols, 172.
$C_{10}H_{20}O_6$ 2:3:4:6-Tetramethyl α-methylaltrose, 1080.

10 III

$C_{10}H_5O_6N_3$ Diketosuccinic anhydride *p*-nitrophenylhydrazone, 1393.
$C_{10}H_6O_2N_2$ Nitro-α-naphthylamines, preparation of, 1205.
$C_{10}H_6O_4N_2$ 1:5- and 1:8-Dinitronaphthalenes, preparation of, pure, 1346.
$C_{10}H_6O_5N_2$ Dinitro-β-naphthols, 288.
$C_{10}H_7O_3N$ 8-Nitro-α-naphthol, 287.
$C_{10}H_7NCl_2$ 2:8-Dichloro-4-methylquinoline, 301.
$C_{10}H_7N_2Cl_5$ αβ-Dichlorocrotonaldehyde 2:4:5-trichlorophenylhydrazone, 1490.
$C_{10}H_8O_2N_2$ 5-Nitro-1-naphthylamine, preparation of, 1346.
$C_{10}H_8N_2Cl_4$ 2:5-Dichlorobenzeneazo-βγ-dichloro-Δ^α-butylene, 1489.
$C_{10}H_9O_3N$ Phenoxyacetic acid 2-acetonitrile, 492.
$C_{10}H_9O_7As$ *p*-Arsonobenzylidenemalonic acid, 352.
$C_{10}H_{10}ON_2$ 1-Methoxy-4-methylphthalazine, and its picrate, 1333.
$C_{10}H_{10}ON_4$ 3-Acetamido-5-(3-pyridyl)pyrazole, 687.
$C_{10}H_{10}O_2N_2$ 1-Methoxy-3-methylphthalaz-4-one, 1334.
Nitro-2:3-dimethylindoles, 957.
$C_{10}H_{11}ON$ Hydroxymethylmethylindoles, 958.
$C_{10}H_{11}O_3N$ 3:4-Dimethoxymandelonitrile, 1466.
$C_{10}H_{11}O_3Cl$ α-Chloro-β-hydroxy-β-phenyl-α-methylpropionic acid, 965.
$C_{10}H_{12}O_2N_2$ β-(*o*-Formylphenyl)propaldehyde dioxime, 554.
$C_{10}H_{12}O_3N_2$ 3-Nitro-2-hydroxy-2:3-dimethyl-2:3-dihydroindole, 958.
$C_{10}H_{12}O_4N_2$ Acetyl-6-nitro-4-methoxy-*o*-toluidine, 441.
$C_{10}H_{12}O_4N_4$ Ethyl α-aminoglyoxylate *m*-nitrophenylhydrazone, 1146.
Ethyl α-aminoglyoxylate nitrophenylhydrazones, 477.
$C_{10}H_{12}O_4S_2$ α-*p*-Carboxyphenylsulphonyl-α-methylthioethane, 1510.
$C_{10}H_{12}O_6N_4$ Xanthosine, 667.
$C_{10}H_{12}O_6S_2$ α-*p*-Carboxyphenylsulphonyl-α-methylsulphonylethane, and its salts, 1510.
$C_{10}H_{13}O_3N$ Homoveratramide, 1466.
m-Nitrophenyl *n*-butyl ether, 661.
Nitrosoresorcinol 3-*n*-butyl ethers, 661.
$C_{10}H_{13}O_4N$ 6-Methoxy-4-ethoxy-*o*-toluidine, 822.
Nitro-3-*n*-butoxyphenols, 661.
$C_{10}H_{13}O_5N_5$ Guanosine, enzymatic preparation of, 667.
$C_{10}H_{14}ON_2$ Phenyl-*tert.*-butylnitrosamine, 948.
$C_{10}H_{14}O_4Br_2$ Ethyl 1:2-dibromo*cyclo*butane-1:2-dicarboxylate, 1632.
$C_{10}H_{15}ON$ *m*-*n*-Butoxyaniline, 661.

$C_{10}H_{15}OI$ 10-Iodocamphor, 825.
$C_{10}H_{15}O_2N$ Vanillylethylamines, 278.
$C_{10}H_{15}O_5N_3$ Methyl *cyclo*pentanone-2:3-dicarboxylate semicarbazone, 818.
$C_{10}H_{16}OAs$ Benzyltrimethylarsonium hydroxide, salts of, 99.
$C_{10}H_{17}O_5N_3$ Methyl β-keto-*n*-pentane-γδ-dicarboxylate semicarbazone, 814.
$C_{10}H_{20}O_2Pt$ Trimethylplatinum dipropionylmethane, 22.
$C_{10}H_{24}OS$ Di-*n*-propyl-*n*-butylsulphonium hydroxide, picrate of, 993.
Ethyldi*iso*butylsulphonium hydroxide, picrate of, 993.
$C_{10}H_{24}IP$ Methyltri*iso*propylphosphonium iodide, 1044.

10 IV

$C_{10}H_5O_4N_2Br$ 1-Bromo-2:4-dinitronaphthalene, 1621.
$C_{10}H_5O_4N_2I$ 1-Iodo-2:4-dinitronaphthalene, 1621.
$C_{10}H_8ONCl$ 8-Chloro-2-hydroxy-4-methylquinoline, 301.
$C_{10}H_6ON_2Cl_4$ β-Chloro-α-ketobutaldehyde 2:4:5-trichlorophenylhydrazone, 1490.
$C_{10}H_8O_2NCl_3$ Trichlorodiacetanilide, 143.
$C_{10}H_6O_2N_2Cl_4$ Ethyl ω-chloroglyoxylate trichlorophenylhydrazone, 1490.
$C_{10}H_8O_2N_3Tl$ Thallium 4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
$C_{10}H_6O_4N_2Cl_2$ Ethyl α-chloroglyoxylate 2:6-dichloro-4-nitrophenylhydrazone, 1145.
$C_{10}H_8O_4N_2Br_2$ Ethyl α-bromoglyoxylate 2:6-dibromo-4-nitrophenylhydrazone, 477.
$C_{10}H_9O_2N_2Cl_3$ Ethyl glyoxylate trichlorophenylhydrazone, 1490.
$C_{10}H_9O_4N_3Cl_2$ Ethyl α-chloroglyoxylate chloronitrophenylhydrazones, 1145.
$C_{10}H_9O_4N_3Br_2$ Ethyl α-bromoglyoxylate 2-bromo-4-nitrophenylhydrazone, 477.
$C_{10}H_{10}O_2N_2Cl_2$ Ethyl glyoxylate 2:5-dichlorophenylhydrazone, 1490.
$C_{10}H_{10}O_2N_2Cl_3$ Ethyl ω-aminoglyoxylate trichlorophenylhydrazone, 1490.
$C_{10}H_{10}O_4NAs$ *p*-Oxyarsinomethylmalonanilic acid, 1066.
$C_{10}H_{10}O_4N_3Cl$ Ethyl α-chloroglyoxylate nitrophenylhydrazones, 1145.
$C_{10}H_{10}O_4N_3Cl_3$ *N*-Nitrophenyl-*N'*-βββ-trichloro-α-methoxyethylureas, 32.
$C_{10}H_{10}O_4N_3Br$ Ethyl α-bromoglyoxylate nitrophenylhydrazones, 477.
$C_{10}H_{10}O_4N_4Cl_2$ Ethyl α-aminoglyoxylate 2:6-dichloro-4-nitrophenylhydrazone, 1146.
$C_{10}H_{10}O_4N_4Br_2$ Ethyl α-aminoglyoxylate 2:6-dibromo-4-nitrophenylhydrazone, 477.
$C_{10}H_{10}O_5NAs$ Succinanil-*p*-arsonic acid, 93.
$C_{10}H_{11}O_2N_2Cl_3$ *N*-Tolyl-*N'*-βββ-trichloro-α-hydroxyethylureas, 31.
$C_{10}H_{11}O_4N_4Cl$ Ethyl α-aminoglyoxylate 4-chloro-2-nitrophenylhydrazone, 1146.
$C_{10}H_{11}O_4N_4Br$ Ethyl α-aminoglyoxylate 2-bromo-4-nitrophenylhydrazone, 477.
$C_{10}H_{12}O_6NAs$ *p*-Arsonomethylmalonanilic acid, 1066.
p-Arsonosuccinanilic acid, 93.
$C_{10}H_{13}O_5N_2As$ Methylmalonanilamide-*p*-arsonic acid, and its sodium salt, 1066.
$C_{10}H_{13}N_3Cl_2Pt$ α-Chloroamminodipyridinoplatinous chloride, 1058.
$C_{10}H_{15}OClHg$ Camphor-10-mercurichloride, 824.
$C_{10}H_{15}OBrHg$ Camphor-10-mercuribromide, 825.
$C_{10}H_{15}OIHg$ Camphor-10-mercuri-iodide, 825.
$C_{10}H_{16}ONI$ 10-Iodocamphoroxime, 825.
$C_{10}H_{18}ONI$ 1-Methyltropinone methiodide, 1511.

10 V

$C_{10}H_{10}O_2NCl_2As$ *p*-Dichloroarsinomethylmalonanilic acid, 1066.
$C_{10}H_{16}ON_4Cl_2Pt$ α-Hydroxylaminoamminodipyridinoplatinous chloride, 1059.

C_{11} Group.

$C_{11}H_{10}O_2$ 6:7-Dihydroxy-2-methylnaphthalene, 86.
2-Ethylchromone, 433.
$C_{11}H_{10}O_4$ 3:4-Dimethoxyphenylpropiolic acid, 1466.
$C_{11}H_{10}O_5$ Usnetinic acid, 1178.
$C_{11}H_{12}O_2$ 6-Methoxy-2:3-dimethylcoumarone, 717.
δ-Phenyl-Δ^{α}-pentenoic acid, 966.
$C_{11}H_{12}O_3$ 2-Acetoacetyl-4-methylphenol, 1389.
γ-Hydroxy-δ-phenyl-Δ^{α}-pentenoic acid, 967.
Methyl 4-methoxycinnamate, 609.
Usneol, 714.
$C_{11}H_{12}O_4$ *O*-Acetyl*iso*everninaldehyde, 495.
Ethyl 2-aldehydophenoxyacetate, 492.
$C_{11}H_{14}O_2$ *p*-Cymenecarboxylic acids, 983.
$C_{11}H_{14}O_3$ Ethyl β-hydroxy-β-phenylpropionate, 964.
β-Hydroxy-δ-phenylvaleric acid, 966.
Methyl α-3-methoxyphenoxyethyl ketone, 717.
γ-Phenoxy-β-methylbutyric acid, 272.
$C_{11}H_{14}O_4$ 2-Hydroxy-4:6-dimethoxy-3-methylacetophenone, 443.
2-Hydroxy-6-methoxy-4-ethoxy-3-methylbenzaldehyde, 719.
$C_{11}H_{14}O_5$ Ethyl hydrogen 3-carbethoxy-Δ^2-*cyclo*hexeneoxalate, 1631.
2-Hydroxy-6-methoxy-4-ethoxy-3-methylbenzoic acid, 719.
Methyl 2:6-dihydroxy-4-ethoxy-3-methylbenzoate, 718.
Methyl 2-hydroxy-4:6-dimethoxy-3-methylbenzoate, 442.

$C_{11}H_{14}N_2$ α-Ethylanilinopropionitrile, 349.
$C_{11}H_{16}O_2$ δ-*n*-Valerolactone, preparation of, 583.
$C_{11}H_{16}O_3$ Methylphloroglucinol α-diethyl ether, 821.
$C_{11}H_{17}N$ *tert.*-Amylaniline, and its hydrochloride, 949.
$C_{11}H_{17}As$ 2:4:6-Trimethylphenyldimethylarsine, 1592.
$C_{11}H_{18}O_6$ Methyl β-methyl-*n*-butane-ααδ-tricarboxylate, 813.
$C_{11}H_{18}N_2$ α-Amino-β-ethylanilinopropane, salts of, 349.
$C_{11}H_{20}O_4$ α-Methyl-α′-*n*-amylglutaric acid, 509.
$C_{11}H_{20}O_7$ 4-Acetyl-2:3-dimethyl α-methylglucoside, 738.

11 III

$C_{11}H_{16}ON_2$ 2-Methyl*cyclo*hexylideneacetone semicarbazone, 1484.
$C_{11}H_{10}O_3N_2$ 1-Acetoxy-4-methylphthalazine, 1334.
$C_{11}H_{10}O_3N_2$ 4-Acetoxy-1-methoxyphthalazine, 1335.
1-Acetoxy-3-methylphthalaz-4-one, 1334.
$C_{11}H_{11}O_2N$ 2-Hydroxy-6-methoxy-4-methylquinoline, 1032.
Substance, from 2:6-dimethoxy-4-methylquinoline, formaldehyde and piperidine, 301.
$C_{11}H_{11}O_2Cl$ β-Chloro-γ-hydroxy-δ-phenylvalerolactone, 967.
$C_{11}H_{11}O_4N$ 5-Methoxyphenoxyacetic acid 2-acetonitrile, 491.
$C_{11}H_{11}O_6N$ 3-Nitro-ω-acetoxy-4-methoxyacetophenone, 26.
$C_{11}H_{12}O_4N_2$ ω-Diazo-3:4:5-trimethoxyacetophenone, 375.
$C_{11}H_{12}O_2N$ 9:10-Dihydroxytetrahydropentindole, 300.
$C_{11}H_{13}O_2Cl$ γ-Phenoxy-α-methylbutyryl chloride, 273.
$C_{11}H_{13}O_3N$ 4-Hydroxy-6:7-methylenedioxy-2-methyltetrahydro*iso*quinoline, picrate of, 279.
$C_{11}H_{13}O_3Cl$ α-Chloro-β-hydroxy-δ-phenylvaleric acid, 966.
$C_{11}H_{13}O_4N$ 3-Amino-ω-acetoxy-4-methoxyacetophenone, 26.
$C_{11}H_{13}O_4Br$ 3:4:5-Trimethoxyphenacyl bromide, 375.
$C_{11}H_{14}ON_2$ Cytisine, and its perchlorate, 507.
$C_{11}H_{14}O_4N_2$ Acetyl-6-nitro-4-ethoxy-*o*-toluidine, 821.
$C_{11}H_{15}O_2N$ γ-Phenoxy-α-methylbutyramide, 273.
$C_{11}H_{15}O_3N$ Acetyl-4:6-dimethoxy-*o*-toluidine, 441.
$C_{11}H_{15}ClS$ Mesityl β-chloroethyl sulphide, 46.
$C_{11}H_{16}ON_2$ Phenyl-*tert.*-amylnitrosoamine, 950.
$C_{11}H_{16}OS$ Mesityl β-hydroxyethyl sulphide, 46.
$C_{11}H_{16}O_2N_2$ β-*p*-Nitrophenylethyltrimethylamine, salts of, 524.
$C_{11}H_{16}O_4S_2$ Phenylsulphonylethylsulphonylethylthiomethane, 308.
$C_{11}H_{17}ON$ α-*m*-Hydroxyphenylpropyldimethylamines, and their salts, 1095.
m-Methoxydiethylaniline, 1270.
$C_{11}H_{17}IS$ β-Phenylethylmethylethylsulphonium iodide, 535.
$C_{11}H_{19}ON$ *trans*-Hexahydrohydrindene-2-acetamide, 1487.
$C_{11}H_{19}ON_3$ α-Methyl*cyclo*hexylideneacetone semicarbazone, 1482.
$C_{11}H_{19}OAs$ Benzyldimethylethylarsonium hydroxide, salts of, 100.
$C_{11}H_{19}O_2N$ α-Methyl-α′-*n*-amylglutarimide, 509.
$C_{11}H_{21}ON_3$ α-Methyl-α-*cyclo*hexylacetone, 1484.
$C_{11}H_{26}OS$ *n*-Propyl-di-*n*-butylsulphonium hydroxide, picrate of, 993.

11 IV

$C_{11}H_5O_3BrS$ 6-Bromo-2-naphthylene 1-thiolcarbonate, 787.
$C_{11}H_7O_4N_3Cl_2$ 4-Chloro-2:6-dinitrophenylpyridinium chloride, 313.
$C_{11}H_7O_4N_3Br_2$ 4-Bromo-2:6-dinitrophenylpyridinium bromide, 313.
$C_{11}H_{10}ONCl$ 8-Chloro-2-methoxy-4-methylquinoline, 301.
$C_{11}H_{12}O_2NBr_3$ Benz-ββγ-tribromo-α-hydroxybutylamide, 995.
$C_{11}H_{12}O_4N_3Cl_3$ *N*-Nitrophenyl-N′-βββ-trichloro-α-ethoxyethylureas, 32.
$C_{11}H_{13}O_2N_2Cl_3$ *N*-Tolyl-*N*′-βββ-trichloro-α-methoxyethylureas, 31.
$C_{11}H_{14}O_6NAs$ Methyl *p*-arsonomethylmalonanilate, and its sodium salt, 1066.
$C_{11}H_{15}OClS$ Mesityl β-chloroethyl sulphoxide, 46.
$C_{11}H_{15}O_2ClS$ Mesityl β-chloroethylsulphone, 46.
$C_{11}H_{15}O_6N_2As$ Methylmalonanilomethylamide-*p*-arsonic acid, and its sodium salt, 1066.
$C_{11}H_{16}O_2NCl$ 1-Dimethylamino-5-furyl-Δ^4-penten-3-one hydrochloride, 839.

11 V

$C_{11}H_7O_4N_3ClBr$ Bromodinitrophenylpyridinium chlorides, 313.
$C_{11}H_7O_4N_3ClI$ Iododinitrophenylpyridinium chlorides, 313.
$C_{11}H_{11}O_2NClBr_2$ Benz-β-chloro-βγ-dibromo-α-hydroxybutylamide, 995.
$C_{11}H_{12}O_2NCl_2Br$ Benz-βγ-dichloro-β-bromo-α-hydroxybutylamide, 995.
$C_{11}H_{19}O_5N_2Cl_4Au$ 3-β-Glucosido-4-methylglyoxaline methochloroaurate, 666.

C_{12} Group.

$C_{12}H_{12}$ 1:3-Dimethylnaphthalene, 437.
$C_{12}H_{14}$ γ-Phenyl-α-methylbutadiene, 1497.
$C_{12}H_{16}$ Dimethyltetrahydronaphthalenes, 436.

12 II

$C_{12}H_{10}O_2$ 2:3-Dihydropentachromone, 235.
Podophyllomerol, 86.
$C_{12}H_{10}N_2$ Harman, 615.
$C_{12}H_{10}Cl_2$ Di(chloromethyl)naphthalene, 485.
$C_{12}H_{11}Cl$ β-1-Naphthylethyl chloride, 1107.
$C_{12}H_{11}Br$ 1-Bromo-4:8-dimethylnaphthalene, and its picrate, 23.
β-1-Naphthylethyl bromide, 1014.
$C_{12}H_{12}O_2$ 6-Methyl-2-ethylchromone, 1389.
$C_{12}H_{12}O_3$ 7-Methoxy-2-ethylchromone, 432.
$C_{12}H_{12}O_4$ β-3:4-Dimethoxybenzoylpropionic lactone, 1088.
$C_{12}H_{12}O_5$ Pyrousnic acid, 1173.
$C_{12}H_{12}O_7$ 5-Methoxyphenoxyacetic-2-pyruvic acid, 491.
$C_{12}H_{14}O$ 1-Ketodimethyltetrahydronaphthalenes, 436.
$C_{12}H_{14}O_3$ 4:6-Dimethoxy-2:3-dimethylcoumarone, 717.
2-Propionoacetyl-4-methylphenol, 1388.
$C_{12}H_{14}O_5$ Ethyl 2-aldehydo-5-methoxyphenoxyacetate, 491.
$C_{12}H_{15}N$ 2:2:4-Trimethyl-1:2-dihydroquinoline, 1328.
$C_{12}H_{16}O$ 1:7-Dimethyltetrahydro-1-naphthol, 436.
$C_{12}H_{16}O_2$ γ-*o*-Xylyl-*n*-butyric acid, 436.
$C_{12}H_{16}O_3$ Ethyl β-hydroxy-β-phenyl-α-methylpropionate, 965.
$C_{12}H_{16}O_4$ Ethyl homoveratrate, 1466.
Ethyl α-3-methoxyphenoxypropionate, 716.
Methyl α-3:5-dimethoxyphenoxyethyl ketone, 717.
$C_{12}H_{16}O_5$ Methyl 2-hydroxy-6-methoxy-4-ethoxy-3-methylbenzoate, 71[illegible].
Methyl 2:4:6-trimethoxy-3-methylbenzoate, 442.
$C_{12}H_{18}O$ *d*-*n*-Butyl α-phenylethyl ether, 178.
$C_{12}H_{18}O_2$ *m*-Methoxyphenyl-*n*-butylcarbinol, 1097.
α-Methyl-*trans*-hexahydroindene-2-acetic acid, 1486.
$C_{12}H_{18}O_4$ Ethyl tetrahydrophthalates, 1630, 1633.
$C_{12}H_{18}O_5$ Ethyl *cyclo*hexanone-2:6-dicarboxylate, 1630.
$C_{12}H_{18}O_{10}$ Methyl αβ-dimethoxyethane-ααββ-tetracarboxylate, 643.
$C_{12}H_{19}N$ *tert.*-Hexylaniline, and its hydrochloride, 950.
$C_{12}H_{20}O_2$ α-Methyl-*trans*-hexahydrohydrindene-2-acetic acid, 1487.
$C_{12}H_{20}O_3$ Ethyl 2:6-dimethyl*cyclo*hexanone-2-acetate, 1015.
$C_{12}H_{27}P$ Tri-*sec.*-butylphosphine, 1044.

12 III

$C_{12}H_4Cl_6S_2$ Hexachlorodiphenyl disulphide, 47.
$C_{12}H_6Cl_4S_2$ 2:4:2′:4′-Tetrachlorodiphenyl disulphide, 47.
$C_{12}H_8O_2Tl_2$ Dithallium diphenyl, 1229.
$C_{12}H_9O_3Cl$ 6-Chloro-2:3-dihydropentachromone, 1588.
r-α-Naphthachloroacetic acid, 36.
$C_{12}H_9O_3Tl$ Thallium diphenol, 1229.
$C_{12}H_9O_3N_3$ Nitroaceto-α-naphthalides, 1205.
$C_{12}H_9O_4N$ 6-Nitro-2:3-dihydropentachromone, 235.
$C_{12}H_9O_6N_3$ 3-Carbethoxy-4:5-diketo-1-*p*-nitrophenylpyrazolone hydrate (+ H_2O_2), 1393.
$C_{12}H_{10}O_4N_2$ 1:4-Diacetoxyphthalazine, 1335.
$C_{12}H_{10}O_6N_4$ 3-Carbethoxy-4-keto*iso*oxazolone-4-*p*-nitrophenylhydrazone, 1392.
4-Oximino-3-carbethoxy-1-*p*-nitrophenyl-5-pyrazolone, 1393.
$C_{12}H_{10}NBr$ 3-Bromo-2′-aminodiphenyl, 1591.
$C_{12}H_{10}Cl_2S$ Chloro-β-naphthyl β-chloroethyl sulphide, 48.
$C_{12}H_{11}O_2N$ 6-Amino-2:3-dihydropentachromone, 235.
$C_{12}H_{11}O_3N_3$ 4-Hydroxy-3-carbethoxy-1-(nitrophenyl)pyrazoles, 479.
$C_{12}H_{11}O_7N_3$ 1-Ethyl 2-hydrogen diketosuccinate *p*-nitrophenylhydrazone, 1393.
$C_{12}H_{11}ClS$ Naphthyl β-chloroethyl sulphides, 47.
$C_{12}H_{12}OS$ Naphthyl β-hydroxyethyl sulphide, 47.
$C_{12}H_{12}O_2N_2$ Nitro-1-acetyl-2:3-dimethylindole, 958.
$C_{12}H_{12}O_3S$ Naphthyl-α-hydroxyethylsulphones, 47.
$C_{12}H_{12}N_2S_2$ 2:2′-Diaminodiphenyl disulphide, picrate of, 297.
$C_{12}H_{13}ON$ 1-Acetyl-2:3-dimethylindole, 958.
10-Hydroxy-1:2:3:10-tetrahydrocarbazole, 299.
$C_{12}H_{13}O_2N$ 1-Acetyl-2-hydroxymethyl-3-methylindole, 958.
2:6-Dimethoxy-4-methylquinoline, 301.
2-Hydroxy-6-ethoxy-4-methylquinoline, 1032.
$C_{12}H_{13}O_3Cl$ δ-5-Chloro-2-hydroxybenzoylvaleric acid, 1588.
$C_{12}H_{13}O_3N$ 4:5-Dimethoxyphenoxyacetic acid-2-acetonitrile, 1164.
$C_{12}H_{13}O_5N_3$ Ethyl nitrophenylazoacetoacetates, 476.
$C_{12}H_{13}O_7N$ β-2-Nitro-4:5-dimethoxybenzoylpropionic acid, 1467.
β-6-Nitro-3:4-dimethoxybenzoylpropionic acid, 1089.
$C_{12}H_{13}NBr_4$ 3:4:6:8-Tetrabromo-2:2:4-trimethyl-1:2:3:4-tetrahydroquinoline, 1329.
$C_{12}H_{14}O_3S$ *p*-Carbethoxyphenylthioacetone, 1507.
$C_{12}H_{14}O_4N_4$ Mesityl oxide 2:4-dinitrophenylhydrazone, 731.
$C_{12}H_{14}O_5S$ *p*-Carbethoxyphenylsulphonylacetone, 1508.
$C_{12}H_{14}NCl$ Chloro-2:2:4-trimethyl-1:2-dihydroquinolines, 1330.

$C_{12}H_{15}O_4N_3$ Ethyl 2-aldehydophenoxyacetate semicarbazone, 492.
$C_{12}H_{15}O_3N$ β-2-Amino-4:5-dimethoxybenzoylpropionic acid, 1467.
β-6-Amino-3:4-dimethoxybenzoylpropionic acid, 1089.
$C_{12}H_{16}O_2N_2$ Nitroso-β-phenylamino*iso*butyl methyl ketone, 366.
$C_{12}H_{17}ON$ *tert.*-Butylacetanilide, 948.
$C_{12}H_{17}O_3N$ Acetyl-6-methoxy-4-ethoxy-*o*-toluidine, 822.
$C_{12}H_{17}O_3N_3$ Methyl-α-3-methoxyphenoxyethyl ketone semicarbazone, 717.
$C_{12}H_{17}O_4N_3$ α-Diethylamino-β-(2:4-dinitrophenyl)ethane, picrate of, 302.
$C_{12}H_{18}ON_2$ Phenyl-*tert.*-hexylnitrosoamine, 950.
$C_{12}H_{18}O_2N_2$ 4-Nitroso-3-*n*-butoxydimethylaniline, and its hydrochloride, 661.
$C_{12}H_{19}ON$ 3-*n*-Butoxydimethylaniline, 661.
m-Ethoxydiethylaniline, 1268.
α-*m*-Hydroxyphenyl-*n*-butyldimethylamine, and its salts, 1097.
α-Methoxyphenylpropyldimethylamines, and their salts, 1094.
α-Methyl-*trans*-hexahydroindene-2-acetamide, 1486.
$C_{12}H_{20}IAs$ 2:4:6-Trimethylphenyldimethylarsine methiodide, 1592.
$C_{12}H_{21}ON$ *trans*-Hexahydrohydrindyl-2-acetoxime, 1487.
α-Methyl-*trans*-hexahydrohydrindene-2-acetamide, 1487.
$C_{12}H_{21}O_2Br_3$ β-Bromo-*n*-butaldehyde trimeride, 818.

12 IV

$C_{12}H_8O_2NBr$ 3-Bromo-2′-nitrodiphenyl, 1591.
$C_{12}H_6O_5N_3Cl_3$ 5-Chloro-3-carbethoxy-4-hydroxy-1-(2′:6′-dichloro-4′-nitrophenyl)pyrazole, 1392.
5:5-Dichloro-3-carbethoxy-1-(2′-chloro-4′-nitrophenyl)-4-pyrazolone, 1391.
$C_{12}H_6O_5N_3Br_3$ 5-Bromo-4-hydroxy-3-carbethoxy-1-(2′:6′-dibromo-4′-nitrophenyl)pyrazole, 479.
$C_{12}H_9ON_2Cl_5$ Acetyl-αβ-dichlorocrotonaldehyde 2:4:5-trichlorophenylhydrazone, 1490.
$C_{12}H_7O_5N_3Cl_2$ 4-Hydroxy-3-carbethoxy-1-(2′:6′-dichloro-4′-nitrophenyl)pyrazole, 1146.
$C_{12}H_6O_5N_3Cl_3$ 5:5-Dichloro-3-carbethoxy-1-nitrophenyl-4-pyrazolones, 1391.
$C_{12}H_7O_5N_3Br_2$ 5-Bromo-4-hydroxy-3-carbethoxy-1-(2′-bromo-4′-nitrophenyl)pyrazole, 479.
4-Hydroxy-3-carbethoxy-1-(2′:6′-dibromo-4′-nitrophenyl)pyrazole, 479.
$C_{12}H_7O_5N_3Br_4$ Ethyl 2:6-dibromo-4-nitrophenylazo-γγ-dibromoacetoacetate, 478.
$C_{12}H_8O_6N_3Cl_2$ 5-Chloro-3-carbethoxy-4-hydroxy-1-(2′-chloro-4′-nitrophenyl)pyrazole, 1391.
$C_{12}H_{10}ON_3Cl_4$ Acetyl-αβ-dichlorocrotonaldehyde 2:5-dichlorophenylhydrazones, 1489.
$C_{12}H_{10}ON_3Cl_4$ αaββ-Tetrachlorobutaldehyde 2:5-dichloro-*N*-acetylphenylhydrazone, 1489.
$C_{12}H_{10}O_2N_3Br$ 3-Bromo-2′-nitrobenzidine, 1590.
$C_{12}H_{10}O_3BrAs$ 3′-Bromodiphenylyl-2-arsonic acid, 1591.
$C_{12}H_{10}O_5N_3Cl$ 5-Chloro-3-carbethoxy-4-hydroxy-1-nitrophenylpyrazoles, 1391.
4-Hydroxy-3-carbethoxy-1-(2′-chloro-4′-nitrophenyl)pyrazole, 1146.
$C_{12}H_{10}O_5N_3Cl_3$ Ethyl 2:6-dichloro-4-nitrophenylazo-γ-chloroacetoacetate, 1146.
$C_{12}H_{10}O_5N_3Br$ 5-Bromo-4-hydroxy-3-carbethoxy-1-(nitrophenyl)pyrazoles, 479.
4-Hydroxy-3-carbethoxy-1-(2′-bromo-4′-nitrophenyl)pyrazole, 479.
$C_{12}H_{10}O_5N_3Br_3$ Ethyl 2:6-dibromo-4-nitrophenylazo-γ-bromoacetoacetate, 477.
$C_{12}H_{10}O_5N_3Br_3$ Ethyl 2-bromo-4-nitrophenylazo-γγ-dibromoacetoacetate, 478.
$C_{12}H_{11}O_3ClS$ Naphthyl-β-chloroethylsulphones, 47.
$C_{12}H_{11}O_5N_3Cl_2$ Ethyl chloronitrophenylazo-γ-chloroacetoacetate, 1146.
Ethyl 2:6-dichloro-4-nitrophenylazoacetoacetate, 1145.
$C_{12}H_{11}O_5N_3Br_2$ Ethyl 2-bromo-4-nitrophenylazo-γ-bromoacetoacetate, 477.
Ethyl 2:6-dibromo-4-nitrophenylazoacetoacetate, 476.
Ethyl nitrophenylazo-γγ-dibromoacetoacetates, 477.
$C_{12}H_{12}ONCl$ 2-Chloro-6-ethoxy-4-methylquinoline, 1032.
$C_{12}H_{12}ONBr$ 1-Acetyl-2-bromomethyl-3-methylindole, 958.
$C_{12}H_{12}O_5N_3Cl$ Ethyl chloronitrophenylazoacetoacetates, 1145.
Ethyl nitrophenylazo-γ-chloroacetoacetates, 1146.
$C_{12}H_{12}O_5N_3Br$ Ethyl nitrophenylazo-γ-bromoacetoacetates, 477.
$C_{12}H_{14}O_4NAs$ *p*-Oxyarsinoadipanilic acid, 92.
$C_{12}H_{15}O_2N_2Cl_3$ *N*-Tolyl-*N*′-βββ-trichloro-α-ethoxyureas, 31.
$C_{12}H_{16}O_6NAs$ *p*-Arsonoadipanilic acid, 92.
Ethyl *p*-arsonomethylmalonanilate, and its sodium salt, 1066.
$C_{12}H_{16}O_{12}BK$ Potassium methyl borotartrate, 955.
$C_{12}H_{17}O_5N_2As$ Adipanilamide-*p*-arsonic acid, and its sodium salt, 92.
Methylmalonaniloethylamide-*p*-arsonic acid, and its sodium salt, 1066.

12 V

$C_{12}H_8O_2N_2ClS$ 4-Chloro-2-nitro-2′-aminodiphenyl sulphide, 1492.
$C_{12}H_8O_3N_2ClS$ 4-Chloro-2-nitro-2′-aminodiphenyl sulphoxide, 1492.
$C_{12}H_{10}O_5N_3Cl_2Br$ Ethyl 2:6-dichloro-4-nitrophenylazo-γ-bromoacetoacetate, 1146.
$C_{12}H_{11}O_5N_3ClBr$ Ethyl 2-chloro-4-nitrophenylazo-γ-bromoacetoacetate, 1146.
$C_{12}H_{14}O_4NCl_2As$ *p*-Dichloroarsinoadipanilic acid, 92.
$C_{12}H_{18}N_6I_6FeHg_2$ Hexamethylferrocyanogen mercuri-iodides, 103.

C_{13} Group.

$C_{13}H_{12}$ 4:5-Benzohydrindene, 1085.
$C_{13}H_{16}$ Hexahydrofluorene, 1109.
1:2-*cyclo*Pentano-1:2:3:4-tetrahydronaphthalene, 1085.

13 II

$C_{13}H_9N$ 2-Phenylacetylenylpyridine, nitration of, 79.
$C_{13}H_{10}O$ Diphenylaldehydes, 43, 44.
$C_{13}H_{10}O_4$ Podophyllomeronic acid, 85.
$C_{13}H_{10}I_2$ 3:5-Di-iododiphenylmethane, 1063.
$C_{13}H_{11}N$ 2-Stilbazole, nitration of, 79.
$C_{13}H_{12}O_2$ 4:8-Dimethyl-1-naphthoic acid, 23.
2-Hydroxy-5-methyldiphenyl, 1404.
1:2:3:4-Tetrahydroxanthone, reactions of, 232.
$C_{13}H_{12}O_6$ 5:6-Dimethoxy-1-hydrindone-2-glyoxylic acid, 611.
$C_{13}H_{13}N$ Phenylbenzylamines, and their picrates, 43, 44.
2-β-Phenylethylpyridine, nitration of, 79.
$C_{13}H_{14}O_2$ 6:7-Dimethoxy-2-methylnaphthalene, 86.
$C_{13}H_{14}O_3$ 7-Methoxy-3-methyl-2-ethylchromone, 433.
$C_{13}H_{14}O_4$ Usnetol, 1173.
$C_{13}H_{14}O_5$ 6-Hydroxy-4-methoxy-2:3:5-trimethylcoumarone-7-carboxylic acid, 718.
Methyl 4:6-dihydroxy-2:3:7-trimethylcoumarone-5-carboxylate, 720.
$C_{13}H_{14}N_2$ 2-β-Aminophenylethylpyridines, 81.
p-Dimethylaminophenylpyridine, 1499.
$C_{13}H_{15}N$ β-Naphthyl*iso*propylamine, action of heat on hydrochloride of, 496.
$C_{13}H_{16}O$ 1-Keto-7-*iso*propyltetrahydronaphthalene, 436.
$C_{13}H_{16}O_3$ 4:6-Dimethoxy-2:3:7-trimethylcoumarone, 718.
O-Dimethylusneol, 716.
6-Hydroxy-4-ethoxy-2:3:5-trimethylcoumarone, 720.
Keto-6:7-dimethoxy-2-methyl-1:2:3:4-tetrahydronaphthalenes, 86.
$C_{13}H_{16}O_4$ Ethyl 3:4-dimethoxycinnamate, 1466.
ϵ-*o*-Hydroxybenzoylhexoic acid, 234.
$C_{13}H_{16}O_7$ Ethyl methylphloroglucinoldicarboxylate, 440.
$C_{13}H_{18}O$ 2-β-Phenylethyl*cyclo*pentanol, 1085.
1:5:8-Trimethyltetrahydronaphthol, 436.
$C_{13}H_{18}O_2$ γ-*p*-Cumyl-*n*-butyric acid, 436.
β-2-Cymylpropionic acid, 129.
$C_{13}H_{18}O_3$ 2:6-Dimethoxy*iso*valerophenone, 1164.
Ethyl γ-phenoxy-α-methylbutyrate, 272.
$C_{13}H_{18}O_4$ 2-Hydroxy-4:6-dimethoxy-3-methyl-*n*-butyrophenone, 823.
Methyl α-3:5-dimethoxy-2-methylphenoxyethyl ketone, 718.
$C_{13}H_{18}O_5$ Ethyl 3-carbethoxy-Δ^2-*cyclo*hexeneoxalate, 1631.
Methyl 2:6-dimethoxy-4-ethoxy-3-methylbenzoate, 719.
$C_{13}H_{21}N$ Methyl-*tert.*-hexylaniline, and its picrate, 950.

13 III

$C_{13}H_9O_2N_3$ 2-Nitrophenylacetylenylpyridines, 83.
$C_{13}H_8O_2Br_2$ *o*-Bromophenyl *o*-bromobenzoate, 1402.
$C_{13}H_8O_8N_6$ 3:5-Dinitrobenzaldehyde 2:4-dinitrophenylhydrazone, 315.
$C_{13}H_8O_{10}N_4$ 3:3′5:5′-Tetranitro-2:2′-dihydroxydiphenylmethane, 700.
$C_{13}H_9OCl$ Diphenyl-4-carboxyl chloride, 42.
$C_{13}H_9O_3N$ Nitrodiphenyl-4′-aldehydes, 971.
$C_{13}H_9O_4N_3$ 3′:5′-Dinitrobenzylideneaniline, 315.
Dinitrostilbazoles, 82.
$C_{13}H_9O_6N_5$ 3:5-Dinitrobenzaldehyde *p*-nitrophenylhydrazone, 315.
$C_{13}H_{10}O_2N_2$ Nitrostilbazoles, 82.
$C_{13}H_{10}O_2Br_2$ Dibromotetrahydroxanthone, 234.
$C_{13}H_{10}O_4N_4$ 3:5-Dinitrobenzaldehyde phenylhydrazone, 315.
$C_{13}H_{10}O_6N_2$ 5:5′-Dinitro-2:2′-dihydroxydiphenylmethane, 699.
$C_{13}H_{10}NBr_3$ 3:5:4′-Tribromo-4-aminodiphenylmethane, 1062.
$C_{13}H_{11}O_2Cl$ 7-Chlorotetrahydroxanthone, 233.
$C_{13}H_{11}O_2Br$ 7-Bromotetrahydroxanthone, 234.
$C_{13}H_{11}O_4N$ 7-Nitrotetrahydroxanthone, 233.
$C_{13}H_{11}O_4N_3$ 3:4′-Dinitro-4-aminodiphenylmethane, 1064.
$C_{13}H_{11}O_4As$ 9-Fluorenol-2-arsonic acid, and its sodium salt, 1456.
$C_{13}H_{11}NBr_2$ 3:5-Dibromo-4-aminodiphenylmethane, 1062.
$C_{13}H_{11}NI_2$ 3:5-Di-iodo-4-aminodiphenylmethane, 1063.
$C_{13}H_{12}O_2N_2$ 3-β-Nitrophenylethylpyridines, 81.
γ-Phthalimido-α-methylbutyronitrile, 1477.
$C_{13}H_{12}O_2Cl_2$ 10:11-Dichlorohexahydroxanthone, 234.
$C_{13}H_{13}O_3N_3$ 3′-Nitro-2-stilbazolealkine, 78.
$C_{13}H_{12}NCl$ *p*-Chlorobenzhydrylamine, and its salts, 1304.
$C_{13}H_{12}NBr$ 3-Bromo-4-aminodiphenylmethane, 1062.
$C_{13}H_{13}ON$ 7-Aminotetrahydroxanthone, 233.
$C_{13}H_{13}O_4N$ γ-Phthalimido-α-methylbutyramide, 1477.
$C_{13}H_{13}O_7N_3$ 1-Ethyl 2-methyldiketosuccinate 1-nitrophenylhydrazones, 1392.
$C_{13}H_{14}O_6N_2$ α-Ethylcrotyl 3:5-dinitrobenzoate, 1498.
$C_{13}H_{15}O_2N$ 6-Methoxy-2-ethoxy-4-methylquinoline, 301.

$C_{13}H_{15}O_3N$ 9:10-Dihydroxy-8-acetyltetrahydropentindole, 300.
$C_{13}H_{15}O_4N$ β-Ethylcrotyl *p*-nitrobenzoate, 1498.
$C_{13}H_{15}O_4Cl$ ε-5-Chloro-2-hydroxybenzoylhexoic acid, 234.
δ-5-Chloro-2-methoxybenzoylvaleric acid, 1588.
$C_{13}H_{15}O_4Br$ ε-5-Bromo-2-hydroxybenzoylhexoic acid, 234.
$C_{13}H_{15}O_5N$ Methyl 4:5-dimethoxyphenoxyacetate 2-acetonitrile, 1164.
$C_{13}H_{15}O_6N$ δ-5-Nitro-2-methoxybenzoylvaleric acid, 1587.
$C_{13}H_{15}O_7N$ Methyl β-6-nitro-3:4-dimethoxybenzoylpropionate, 1089.
$C_{13}H_{15}O_5N$ 4:5-Dimethoxyphenoxyacetic acid-2-acetoxime, 1164.
$C_{13}H_{16}O_4Br_2$ Ethyl 3:4-dimethoxycinnamate dibromide, 1466.
$C_{13}H_{16}O_5S$ α-*p*-Carbethoxyphenylsulphonylethyl methyl ketone, 1509.
$C_{13}H_{17}O_3N$ Ethyl hydrogen dimethylmalonanilide, 1617.
6:7-Methylenedioxy-4-ethoxy-2-methyltetrahydro*iso*quinoline, picrate of, 279.
$C_{13}H_{17}O_4N$ δ-5-Amino-2-methoxybenzoylvaleric acid, 1587.
$C_{13}H_{17}O_4N_3$ α-Piperidino-β-(2:4-dinitrophenyl)ethane, picrate of, 302.
$C_{13}H_{17}O_5N$ Methyl β-6-amino-3:4-dimethoxybenzoylpropionate, 1089.
$C_{13}H_{17}O_5N_3$ Ethyl 2-aldehydo-5-methoxyphenoxyacetate semicarbazone, 491.
$C_{13}H_{18}O_2N_2$ Nitroso-β-benzylamino*iso*butyl methyl ketone, 366.
Nitroso-β-*m*-tolylamino*iso*butyl methyl ketone, 366.
$C_{13}H_{18}O_2Pt$ Trimethylplatinum benzoylacetone, 22.
$C_{13}H_{18}O_3S$ Anhydro-*d*-camphorsulphonylacetone, 308.
$C_{13}H_{19}ON$ β-Benzylamino*iso*butyl methyl ketone, and its hydrochloride, 366.
$C_{13}H_{19}O_3N$ Acetyl-4:6-diethoxy-*o*-toluidine, 821.
$C_{13}H_{19}O_4N$ Homopiperonyldimethylaminodimethylacetal, 279.
$C_{13}H_{19}O_4N_3$ Methyl α-3:5-dimethoxyphenoxyethyl ketone semicarbazone, 717.
$C_{13}H_{20}O_2N_2$ α-*m*-Hydroxyphenylpropyldimethylamine methylurethanes, 1095.
$C_{13}H_{21}ON$ α-*m*-Hydroxyphenyl-*n*-amyldimethylamine, and its salts, 1097.
α-*m*-Methoxyphenyl-*n*-butyldimethylamine, 1097.
$C_{13}H_{21}O_3Br$ Ethyl γ-bromo-β-methyl-*n*-propane-αγγ-tricarboxylate, 815.
$C_{13}H_{23}IAs$ 2:4:6-Trimethylphenyldimethylarsine ethiodide, 1591.
$C_{13}H_{23}ON$ *trans*-Hexahydrohydrindyl-2-acetone semicarbazone, 1487.
α-Methyl-*trans*-hexahydrohydrindyl-2-acetoxime, 1487.
$C_{13}H_{23}OAs$ Benzyltriethylarsonium hydroxide, salts of, 100.
$C_{13}H_{30}IP$ Methyltri-*sec.*-butylphosphonium iodide, 1044.

13 IV

$C_{13}H_7ONCl_2$ 1:4-Dichloroacridone, 1372.
$C_{13}H_7ONBr_2$ 1:4-Dibromoacridone, 1372.
$C_{13}H_7O_3N_2Cl$ 4-Chloro-1-nitroacridone, 1372.
$C_{13}H_9ONCl_2$ 2:5-Dichlorodiphenylamine-6′-carboxylic acid, 1372.
$C_{13}H_9O_2NBr_2$ 2:5-Dibromodiphenylamine-6′-carboxylic acid, 1372.
$C_{13}H_9O_4N_2Cl$ 5-Chloro-2-nitrodiphenylamine-6′-carboxylic acid, 1372.
$C_{13}H_9O_4N_4Br$ 3:5-Dinitrobenzaldehyde *p*-bromophenylhydrazone, 315.
$C_{13}H_{10}ON_2Cl_2$ *s*-Dichlorophenylureas, 1263.
$C_{13}H_{10}O_4N_2Br$ 5-Bromo-3:4′-dinitro-4-aminodiphenylmethane, 1064.
$C_{13}H_{11}O_4NS$ 2-Nitrophenyl-4-hydroxy-*m*-tolyl sulphoxide, 1493.
$C_{13}H_{11}O_6N_3S$ *m*-Nitrobenzenesulphonnitrotoluidides, 1290.
$C_{13}H_{12}O_3N_2S$ 2-*o*-Nitrophenylaminophenyl methyl sulphoxide, 1492.
$C_{13}H_{12}O_4NAs$ 7-Aminofluorenol-2-arsonic acid, and its sodium salt, 1456.
$C_{13}H_{12}O_4N_2S$ 2-*o*-Nitrophenylaminophenylmethylsulphone, 1492.
$C_{13}H_{12}O_6N_3Cl_3$ *N*-Acetyl-*N*′-nitrophenyl-*N*′-βββ-trichloro-α-acetoxyethylureas, 31.
$C_{13}H_{12}O_7N_2Cl$ 1-Ethyl-2-methyl diketosuccinate 1-(2′-chloro-4′-nitrophenylhydrazone), 1392.
$C_{13}H_{13}O_7N_2Br$ 1-Ethyl 2-methyl diketosuccinate 1-(2′-bromo-4′-nitrophenylhydrazone), 1392.
$C_{13}H_{15}O_4NAs$ Methyl *p*-arsonoadipanilate, 92.
$C_{13}H_{19}O_5N_2As$ Adipanilomethylamide-*p*-arsonic acid, and its sodium salt, 92.
Methylmalonanilo-*n*-propylamide-*p*-arsonic acid, and its disodium salt, 1066.
$C_{13}H_{20}O_2NCl$ 1-Diethylamino-5-furyl-Δ^4-penten-3-one hydrochloride, 840.

13 V

$C_{13}H_{11}O_3N_2ClS$ 2-*p*-Chloro-*o*-nitrophenylaminophenyl methyl sulphoxide, 1493.
$C_{13}H_{11}O_4N_2ClS$ 2-*p*-Chloro-*o*-nitrophenylaminophenylmethylsulphone, 1493.

C_{14} Group.

$C_{14}H_{10}$ Anthracene, equilibrium of, with phenanthrene, 650.
Phenanthrene, equilibrium of, with anthracene, 650.
$C_{14}H_{14}$ 1-Methyl-4-*iso*propenylnaphthalene, 24.
$C_{14}H_{16}$ 1-Methyl-4-*iso*propylnaphthalene, 130.
$C_{14}H_{18}$ Octahydrophenanthrene, 1465.
1:2-*cyclo*Pentano-1-methyl-1:2:3:4-tetrahydronaphthalene, 1085.
1-β-Phenylethyl*cyclo*hexene, 1464.
1-β-Phenylethyl-Δ^1-*cyclo*hexene, 1107.

14 II

$C_{14}H_{10}O_2$ 2-Hydroxy-5-methyldiphenyl-2′-carboxylic acid, 1403.
$C_{14}H_{10}O_5$ 7-Hydroxy-2:3-diphenylchromone, 1388.
$C_{14}H_{12}O_2$ Hydroxyphenyl benzyl ketones, 1461.
Phenyl phenylacetate, 1461.
$C_{13}H_{13}N$ 4′-Methyl-2-stilbazole, 78.
$C_{14}H_{14}O$ 4-Hydroxy-1:2:3:4-tetrahydroxyphenanthrene, 404.
2-Methoxy-5-methyldiphenyl, 1404.
$C_{14}H_{14}O_3$ Ethyl α-naphthylglycollates, optically active, 705.
3-Propionyl-2:6-dimethylchromone, 1389.
$C_{14}H_{14}O_6$ Usnetic acid, 1173.
$C_{14}H_{14}O_7$ ω-2:4-Triacetoxyacetophenone, 372.
$C_{14}H_{16}O$ Benzyl Δ^1-*cyclo*hexenyl ketone, 1464.
Dimethyl-(4-methyl-1-naphthyl)carbinol, 24.
1-Phenylacetyl-Δ^1-*cyclo*hexene, 1106.
$C_{14}H_{16}O_4$ *O*-Methylusnetols, 1178.
α-Phenylcrotyl hydrogen succinate, 1498.
$C_{14}H_{16}O_5$ *O*-Dimethylpyrousnic acid, 1177.
6-Hydroxy-4-ethoxy-2:3:5-trimethylcoumarone-7-carboxylic acid, 719.
Methyl 6-hydroxy-4-methoxy-2:3:5-trimethylcoumarone-7-carboxylate, 718.
$C_{14}H_{18}O$ 2-β-Phenylethyl*cyclo*hexanone, 1465.
$C_{14}H_{18}O_4$ ε-2-Hydroxy-5-methylbenzoylhexoic acid, 234.
α-(β-Phenylethyl)adipic acid, 1084.
$C_{14}H_{18}O_5$ α-Methyl α-3-hydroxy-5-methoxy-2-acetyl-4-methylphenoxyacetone, 1179.
$C_{14}H_{18}O_7$ Ethyl 1:1-dimethyl*cyclo*hexane-2:4:6-trione-3:5-dicarboxylate, 1617.
$C_{14}H_{20}O$ 1-Methyl-2-β-phenylethyl*cyclo*pentanol, 1085.
Methyl*iso*propyltetrahydro-1-naphthol, 436.
1-β-Phenylethyl*cyclo*hexanol, 1107.
β-Phenylethyl*cyclo*hexanols, 1464.
$C_{14}H_{20}O_2$ β-2-Cymyl*iso*butyric acid, 129.
$C_{14}H_{20}O_4$ 2-Hydroxy-4-methoxy-6-ethoxy-3-methyl-*n*-butyrophenone, 822.
$C_{14}H_{20}O_{10}$ Methyl β-methyl-*n*-propane-αaβγγ-pentacarboxylate, 814.
$C_{14}H_{22}O_2$ Ethyl α-methyl-*trans*-hexahydroindene-2-acetate, 1486.
$C_{14}H_{22}O_4$ Ethyl 1-ethyl-Δ^2-*cyclo*hexene-1:3-dicarboxylate, 1631.
$C_{14}H_{22}O_5$ Ethyl 2-carboxy*cyclo*hexanone-2-β-propionate, 1015.
$C_{14}H_{28}O_2$ Myristic acid, films of, on aqueous solutions, 1525.

14 III

$C_{14}H_6O_8N_6$ 3:5:3′:5′-Tetranitrobenzaldazine, 315.
$C_{14}H_{10}O_2As_2$ 4:4′-Dialdehydoarsenobenzene, 352.
$C_{14}H_{10}O_5N_2$ 2:4′-Dinitro-4-acetyldiphenyl, 970.
$C_{14}H_{10}O_7N_4$ Acetophenoneoxime picryl ether, 810.
$C_{14}H_{11}O_3N$ 2-Nitro-4′-acetyldiphenyl, 970.
$C_{14}H_{11}O_4N_3$ 3′:5′-Dinitrobenzylidene-*p*-toluidine, 315.
$C_{14}H_{12}O_5N_4$ 3:3′-Dinitro-2:2′-azoxytoluene, 501.
$C_{14}H_{12}N_2S$ 2′-Amino-1-phenyl-3-methylbenzthiazole, and its salts, 297.
$C_{14}H_{13}ON_3$ Diphenylaldehyde semicarbazones, 43, 44.
$C_{14}H_{13}O_2Cl$ Ethyl α-naphthylchloroacetates, optically active, 713.
$C_{14}H_{14}O_2Cl_2$ 10:11-Dichloro-7-methylhexahydroxanthone, 235.
$C_{14}H_{14}O_2N_{10}$ Nitrotheophylline, 642.
$C_{14}H_{14}NBr$ 3-Bromo-2′-dimethylaminodiphenyl, 1591.
$C_{14}H_{15}ON$ 4′-Methyl-2-stilbazolealkine, 78.
$C_{14}H_{15}O_4N$ 6:7-Dimethoxyquinoline-4-propionic acid, 1089.
$C_{14}H_{15}O_7N_3$ Ethyl diketosuccinate nitrophenylhydrazones, 1392.
$C_{14}H_{16}O_7N_4$ Ethyl diketosuccinate oximino-*p*-nitrophenylhydrazone, 1392.
$C_{14}H_{16}N_2S_2$ 3:3′-Diamino-2:2′-ditolyl disulphide, 501.
Diaminoditolyl disulphides, and their salts, 297.
$C_{14}H_{16}N_2Cl$ 8-Chloro-2-piperazino-4-methylquinoline, 301.
$C_{14}H_{17}ON$ 1-Acetyl-2:2:4-trimethyl-1:2-dihydroquinoline, 1328.
8:9-Benz-$\Delta^{8:9}$-homogranaten-3-one, and its salts, 555.
$C_{14}H_{17}O_4N$ *O*-Methyl*iso*usnetol oxime, 1178.
$C_{14}H_{17}O_6N$ β-6-Acetamido-3:4-dimethoxybenzoylpropionic acid, 1089.
$C_{14}H_{18}O_2N_2$ β-6:7-Dimethoxyquinaldyl(4)-ethylamine, and its dihydrochloride, 1468.
$C_{14}H_{19}ON$ ψ-8:9-Benz-$\Delta^{8:9}$-homogranaten-3-ol, 555.
2-β-Phenylethyl*cyclo*hexanone oxime, 1465.
$C_{14}H_{19}ON_3$ 2-β-Phenylethyl*cyclo*pentanone semicarbazone, 1084.
$C_{14}H_{19}O_2N_3$ Nitrosoanagyramine, 508.
$C_{14}H_{20}ON_2$ Anagyramine, 508.
$C_{14}H_{20}O_6S$ 2-*p*-Toluenesulphonyl β-methylglucoside, 225.
$C_{14}H_{21}O_3N_3$ 2:6-Dimethoxy*iso*valerophenone semicarbazone, 1164.
$C_{14}O_{21}O_4N_3$ Methyl α-3:5-dimethoxy-2-methylphenoxyethyl ketone semicarbazone, 718.
$C_{14}H_{22}O_3N_2$ α-*m*-Hydroxyphenyl-*n*-butyldimethylamine methylurethane, 1097.
$C_{14}H_{23}ON$ α-*m*-Methoxyphenyl-*n*-amyldimethylamine, and its salts, 1097.
$C_{14}H_{24}NBr$ Benzyl-*tert*.-butylcarbinyldimethylammonium bromide, 68.

14 IV

$C_{14}H_8O_2NCl_3$ Trichlorophthalanil, 143.
$C_{14}H_9ON_2Br_4$ ω-Bromophenylglyoxal 2:4:6-tribromophenylhydrazone, 481.
$C_{14}H_8O_2NCl$ 8-Chloro-1-aminoanthraquinone, 448.
$C_{14}H_9ON_2Br_3$ ω-Bromophenylglyoxal 2:4-dibromophenylhydrazone, 481.
$C_{14}H_9O_3N_2Cl_2$ ω-Chlorophenylglyoxal chloronitrophenylhydrazones, 1626.
$C_{14}H_9O_7N_4Cl$ *p*-Chloroacetophenoneoxime picryl ether, 811.
$C_{14}H_{10}ONCl$ 4-Chloro-1-methylacridone, 1372.
$C_{14}H_{10}ON_2Br_2$ ω-Bromophenylglyoxal *p*-bromophenylhydrazone, 481.
$C_{14}H_{10}O_3N_2Cl$ ω-Chlorophenylglyoxal nitrophenylhydrazones, 1626.
$C_{14}H_{10}O_3N_2Br$ ω-Bromophenylglyoxal *p*-nitrophenylhydrazone, 1625.
$C_{14}H_{11}O_6N_2S$ 4:5-Dinitro-*o*-tolyl *o*-nitro-*p*-toluenesulphonate, 1166.
$C_{14}H_{12}O_2NCl$ 5-Chloro-2-methyldiphenylamine-6′-carboxylic acid, 1372.
$C_{14}H_{12}O_4N_2S$ 2-Nitro-2′-acetamidodiphenyl sulphoxide, 1492.
$C_{14}H_{12}O_4N_2S_2$ 3:3′-Dinitro-2:2′-ditolyl disulphide, 501.
$C_{14}H_{12}O_7N_2S$ 4-Nitro-*o*-tolyl nitro-*p*-toluenesulphonate, 1166.
$C_{14}H_{13}O_5NS$ 4-Nitro-*o*-tolyl *p*-toluenesulphonate, 1166.
$C_{14}H_{12}O_5N_2As$ 7-Carbamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1457.
$C_{14}H_{15}O_4N_2Cl_3$ *N*-Acetyl-*N*-tolyl-N′-βββ-trichloro-α-acetoxyureas, 31.
$C_{14}H_{15}ONCl$ 1-β′-Phenylethyl*cyclo*hexene nitrosochloride, 1464.
$C_{14}H_{16}O_2N_2Cu$ Di(methylamino) cupric diphenol, 1230.
$C_{14}H_{20}O_2NCl$ 1-Piperidino-5-furyl-Δ^4-penten-3-one hydrochloride, 840.
$C_{14}H_{20}O_6NAs$ Ethyl *p*-arsonoadipanilate, and its sodium salt, 92.
$C_{14}H_{21}O_5N_2As$ Adipanilodimethylamide-*p*-arsonic acid, and its sodium salt, 92.
Adipaniloethylamide-*p*-arsonic acid, and its sodium salt, 92.
$C_{14}H_{24}ONI$ α-*m*-Methoxyphenyl-*n*-butyldimethylamine methiodide, 1097.

14 V

$C_{14}H_9ON_2ClBr_2$ ω-Chlorophenylglyoxal 2:4:6-tribromophenylhydrazone, 481.
$C_{14}H_{11}O_4N_2ClS$ 4-Chloro-2-nitro-2′-acetamidodiphenyl sulphoxide, 1492.
$C_{14}H_{16}O_6N_2S_2As_2$ 3:3′-Diamino-4:4′-dihydroxyarsenobenzene-*NN*′-dimethylenesulphurous acid, disodium salt, 1011.
$C_{14}H_{22}N_6I_4FeHg$ Tetramethyldiethylferrocyanogen mercuri-iodides, 103.

C_{15} Group.

$C_{15}H_{16}$ Dehydrocadalene, and its picrate, 24.
$C_{15}H_{17}$ Cadalene, synthesis of, 23.
$C_{15}H_{18}$ 1:7-Dimethyl-4-*iso*propylnaphthalene, 129.
$C_{15}H_{20}$ Methyloctahydrophenanthrene, 1084.

15 II

$C_{15}H_{10}O$ Phenanthrene-9-aldehyde, 40.
$C_{15}H_{10}O_4$ Daidzein, 274.
6:7-Dihydroxyflavone, 1075.
Primetin, attempted synthesis of, 1621.
$C_{15}H_{10}O_5$ Helminthosporin, synthesis of, 488.
$C_{15}H_{10}O_6$ Tetrahydroxyflavone, 1075.
$C_{15}H_{10}O_7$ Robinetin, 269.
$C_{15}H_{12}O$ Chalkone, nitration of, 344.
$C_{15}H_{12}O_2$ 2-Ethyl-α-naphthachromone, 433.
1-Hydroxy-2-methylanthrone, 1519.
$C_{15}H_{12}O_4$ 4-*O*-Benzoylresacetophenone, 1384.
$C_{15}H_{13}N$ 9-Phenanthrylmethylamine, and its picrate, 40.
r-Phenyl-*m*-tolylacetonitrile, 335.
$C_{15}H_{14}O$ 2:2-Dimethyldibenzopyran, 1403.
$C_{15}H_{16}O_2$ Ethyl 4:8-dimethyl-1-naphthoate, 23.
2-Hydroxy-2′-α-hydroxy*iso*propyldiphenyl, 1403.
$C_{15}H_{16}O_6$ Ethyl 5:6-dimethoxy-1-hydrindone-2-glyoxylate, 611.
O-Methylusnetic acid, 1178.
$C_{15}H_{16}S_2$ αα′-Bisphenylthiopropane, 309.
$C_{15}H_{17}N$ Benzhydryldimethylamime, and its picrate, 73.
$C_{15}H_{18}O_4$ 5:7-Dimethoxy-2:8-dimethyl-3-ethylchromone, 823.
$C_{15}H_{18}O_5$ Methyl *O*-dimethylpyrousnate, 1177.
Methyl 6-hydroxy-4-ethoxy-2:3:5-trimethylcoumarone-7-carboxylate, 719.
$C_{15}H_{18}O_6$ Ethyl veratroylacetoacetate, 1471.
$C_{15}H_{20}O_3$ *O*-Diethylusneol, 716.
$C_{15}H_{20}O_4$ (2-Cymylmethyl) methylmalonic acid, 129.
α-(β-Phenylethyl) pimelic acid, 1083.
$C_{15}H_{20}O_5$ 2-Acetoxy-4:6-dimethoxy-3-methyl-*n*-butyrophenone, 823.
$C_{15}H_{20}O_6$ Ethyl 2-acetyl-3:5-dimethoxy-6-methylphenoxyacetate, 444.
$C_{15}H_{20}O_9$ Methyl 4-methoxysalicylate β-glucoside, 1619.
$C_{15}H_{22}O$ Methyl-2-β-phenylethyl*cyclo*hexanols, 1083.
$C_{15}H_{22}O_4$ 2-Hydroxy-4:6-diethoxy-3-methyl-*n*-butyrophenone, 821.

$C_{15}H_{22}O_8$ Ethyl hexane-2:4-dione-1:3:5-tricarboxylate, 440.
$C_{15}H_{26}N_2$ Hexahydrodeoxyanagyrine, and its salts, 509.
l-Sparteine, and its perchlorate, 510.

15 III

$C_{15}H_6O_3Cl_2$ 6-Chloroanthraquinone-1-carboxyl chloride, 449.
$C_{15}H_7O_4Cl$ Chloroanthraquinone-1-carboxylic acids, 448.
$C_{15}H_8O_{11}N_2$ Di-3:3′-(5-nitrosalicylic acid) ketone, 700.
$C_{15}H_9OCl$ 9-Phenanthroyl chloride, 40.
$C_{15}H_9O_4Br$ 3-Bromoalizarin 2-methyl ether, 1520.
$C_{15}H_{10}O_3N_4$ 3-Nitro-1-benzoyl-5-(3-pyridyl)pyrazole, 687.
$C_{15}H_{11}ON$ Phenanthrene-9-aldoxime, 40.
$C_{15}H_{11}O_3Br$ 4-Bromo-1-hydroxy-2-methoxyanthrone, 1517.
$C_{15}H_{11}O_6Cl$ Morinidin chloride, 373.
$C_{15}H_{12}O_8N_4$ Homopiperonal 2:4-dinitrophenylhydrazone, 1531.
$C_{15}H_{12}NBr$ Bromo-2-phenyl-3-methylindoles, 959.
$C_{15}H_{13}O_4N$ Ethyl 4-nitrodiphenyl-4′-carboxylate, 971.
$C_{15}H_{13}O_5N_3$ 3:4′-Dinitro-4-acetamidodiphenylmethane, 1064.
$C_{15}H_{14}O_5S_2$ *p*-Carboxyphenylsulphonyl-*p*-tolylthiomethane, 1508.
$C_{15}H_{14}O_6S_2$ *p*-Carboxyphenylsulphonyl-*p*-tolylsulphonylmethane, 1508.
$C_{15}H_{15}ON$ Phenylbenzylamine acetates, 43, 44.
$C_{15}H_{16}O_3N_2$ *s*-Di-*p*-anisylurea, 1263.
$C_{15}H_{16}O_3N_4$ *β*-6:7-Dimethoxyquinaldyl(4)-propionic azide, 1468.
$C_{15}H_{16}O_4S_2$ Bisphenylsulphonylpropane, 308.
$C_{15}H_{17}ON$ *m*-Hydroxydiphenylmethyldimethylamine, and its salts, 1097.
$C_{15}H_{17}O_2N$ *l*-*a*-Phenylethylamine benzoate, 1503.
$C_{15}H_{17}O_4N$ *β*-6:7-Dimethoxyquinaldyl(4)-propionic acid, 1468.
$C_{15}H_{17}O_7N_3$ 1-Ethyl 2-*n*-propyldiketosuccinate 1-*p*-nitrophenylhydrazone, 1392.
$C_{15}H_{17}N_2Cl$ 8-Chloro-2-piperidino-4-methylquinoline, 301.
$C_{15}H_{18}O_2N_2$ Anagyramide, 508.
$C_{15}H_{18}NBr$ Benzhydryldimethylammonium bromide, 75.
Dibenzylmethylammonium bromide, 75.
$C_{15}H_{19}ON_3$ Benzyl Δ^1-*cyclo*hexenyl ketone semicarbazone, 1464.
6-Methoxy-2-piperazino-4-methylquinoline, 301.
$C_{15}H_{19}O_5N$ *δ*-5-Acetamido-2-methoxybenzoylvaleric acid, 1587.
$C_{15}H_{20}ON_2$ Anagyrine, and its perchlorate, 507.
$C_{15}H_{21}ON$ *a*-*cyclo*Hexylpropionanilide, 1483.
$C_{15}H_{21}ON_3$ 2-*β*-Phenylethyl*cyclo*hexanone semicarbazone, 1465.
$C_{15}H_{21}O_3N_3$ Eserine, synthesis of, 270, 1472, 1475.
$C_{15}H_{21}O_4N_3$ *β*-6:7-Dimethoxyquinaldyl(4)-propionic hydrazide, 1468.
3:5-Dinitro-2-piperidino-*p*-cymene, 980.
$C_{15}H_{22}O_9N_4$ Trimethyl theophylline arabinoside, 641.
$C_{15}H_{23}ON$ Hexahydroanagyryline, 508.
$C_{15}H_{24}ON_2$ Tetrahydroanagyrine, and its perchlorate, 509.

15 IV

$C_{15}H_{10}O_6NCl$ 4′-Nitro-3:5:7-trihydroxyflavylium chloride, 28.
$C_{15}H_{12}ONBr_3$ 3:5:4′-Tribromo-4-acetamidodiphenylmethane, 1063.
$C_{15}H_{12}O_2NCl$ 4′-Amino-7-hydroxyflavylium chloride, 28.
$C_{15}H_{12}O_3NCl$ 4′-Amino-3:7-dihydroxyflavylium chloride, 28.
$C_{15}H_{12}O_4NCl$ 4′-Amino-3:5:7-trihydroxyflavylium chloride, 29.
$C_{15}H_{12}O_6NAs$ 7-Carbamylmethoxyfluorenone-2-arsonic acid, sodium salt, 1456.
$C_{15}H_{14}ONCl$ Aceto-*p*-chlorobenzhydrylamide, 1504.
$C_{15}H_{14}ONBr$ Bromo-4-acetamidodiphenylmethanes, 1062.
$C_{15}H_{14}O_3NBr$ 6-Bromo-2:3-dimethoxybenzanilide, 1623.
$C_{15}H_{14}O_4N_2S$ 2-*o*-Nitrophenylacetamidophenyl methyl sulphoxide, 1493.
$C_{15}H_{14}O_5NAs$ 7-Acetamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1456.
$C_{15}H_{15}O_5N_2As$ 9-Fluorenol-7-glycineamide-2-arsonic acid, and its sodium salt, 1456.
7-Methylcarbamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1457.
$C_{15}H_{17}O_2NCu$ Propylaminocupric diphenol, 1230.
$C_{15}H_{17}NBrI$ 3′-Bromodiphenylyl-2-trimethylammonium iodide, 1591.
$C_{15}H_{17}BrIAs$ 3′-Bromodiphenylyl-2-trimethylarsonium iodide, 1591.
$C_{15}H_{18}ON_2Br_2$ Dibromoanagyrine, 507.
$C_{15}H_{19}OBrAs$ 3′-Bromodiphenyl-2-trimethylarsonium hydroxide, camphorsulphonates of, 1591.
$C_{15}H_{21}N_2IS_2$ 3:3′-Dimethylthiazolinotricarbocyanine iodide, 192.
$C_{15}H_{23}O_5N_2As$ Adipanilo-*n*-propylamide-*p*-arsonic acid, and its sodium salt, 92.
$C_{15}H_{24}O_2N_2S$ Tetramethylpiperazines, and their salts, 143.

C_{16} Group.

$C_{16}H_{14}$ Ethylphenanthrenes, 1015.
$C_{16}H_{16}$ *as*-Hexahydropyrene, 404.
$C_{16}H_{18}$ *aa*-Diphenyl-*n*-butane, 533.
$C_{16}H_{22}$ 12-Ethyloctahydrophenanthrene, 1465.
2-*β*-Phenylethyl-1-ethyl-Δ^1-*cyclo*hexene, 1465.
$C_{16}H_{34}$ Heptadecane, equilibria of, with its homologues, 1349.

16 II

$C_{16}H_{12}O_2$ 2-Benzoyl-1-hydrindone, 612.
2-Benzylchromone, 1461.
2-Methyl*iso*flavone, 1461.
Methyl phenanthrene-9-carboxylate, 40.
3-Phenyl-4-methylcoumarin, 617.
$C_{16}H_{12}O_4$ 5:7-Dihydroxy-3-phenyl-4-methylcoumarin, 1461.
5-Hydroxy-8-methoxyflavone, 1623.
6-Hydroxy-4′-methoxyflavone, 1075.
7-Hydroxy-4′-methoxyflavone, 1386.
$C_{16}H_{14}O_2$ 3-Methyl-2-ethyl-α-naphthachromone, 434.
$C_{16}H_{14}O_3$ Benzoylphenacylcarbinol, 625.
$C_{16}H_{14}O_5$ 4-*O*-Anisoylresacetophenone, 1386.
$C_{16}H_{14}O_6$ Phenoxyacetic acid 2-resacetophenone, 492.
$C_{16}H_{16}O$ 2:2:5″-Trimethyldibenzopyran, 1404.
$C_{16}H_{16}O_2$ 3″-Methoxy-2:2-dimethyldibenzopyran, 1404.
$C_{16}H_{16}O_4$ 2:4-Dihydroxy-2′-methoxy-β-phenylpropiophenone, 289.
7-Methoxy-2:8:4′:5′-tetramethyl-5:6-furano-(2′:3′)-chromone, 1178.
$C_{16}H_{16}O_5$ 6-Benzyloxy-2:3-dimethoxybenzoic acid, 1623.
$C_{16}H_{16}O_9$ ω:2:4:6-Tetra-acetoxyacetophenone, 369.
$C_{16}H_{16}N_6$ Azo-dye, from 3-amino-5-(3-pyridyl)pyrazole, 687.
$C_{16}H_{18}O_2$ 2-Hydroxy-5-methyl-2′-α-hydroxy*iso*propyldiphenyl, 1404.
$C_{16}H_{18}O_5$ 6-Hydroxy-4-methoxy-7-acetoacetyl-2:3:5-trimethylcoumarone, 1178.
$C_{16}H_{18}O_6$ 2:4-Diacetoxy-6-methylbenzylidene diacetate, 495.
$C_{16}H_{20}O_3$ Ethyl 2-β-phenylethyl*cyclo*pentan-1-one-2-carboxylate, 1084.
$C_{16}H_{20}O_4$ 7-Methoxy-5-ethoxy-2:8-dimethyl-3-ethylchromone, 822.
$C_{16}H_{20}O_6$ Aspidinol diacetate, 822.
Ethyl *m*-methoxybenzoylsuccinate, 1472.
$C_{16}H_{20}N_2$ 2:2-Bisdimethylaminodiphenyl, and its salts, 139.
$C_{16}H_{22}O_5$ 2-Acetoxy-4-methoxy-6-ethoxy-*n*-butyrophenone, 822.
$C_{16}H_{24}O$ 2-β-Phenylethyl-1-ethyl*cyclo*hexanol, 1465.
$C_{16}H_{24}O_8$ Ethyl 1:1-dimethylpentane-2:4-dione-1:3:5-tricarboxylate, 1618.

16 III

$C_{16}H_9O_3N$ Substance, from degradation of Höchst Yellow R, 1000.
$C_{16}H_9O_4Cl$ Methyl chloroanthraquinone-1-carboxylates, 448.
$C_{16}H_9O_7N_3$ 2-Phenyl-4-(3′:5′-dinitro-2′-hydroxybenzylidene)oxazolone, 487.
$C_{16}H_{11}OBr$ 3-Phenanthryl bromomethyl ketone, 1013.
$C_{16}H_{11}O_4N_3$ 4-Hydroxy-3-benzoyl-1-nitrophenylpyrazoles, 1626.
αβγ-Triketo-γ-phenyl-*n*-butyric acid β-*p*-nitrophenylhydrazone, 1627.
$C_{16}H_{11}O_4Br$ 3-Bromoalizarin dimethyl ether, 1520.
$C_{16}H_{11}O_5N_3$ 3:5-Dinitro-2-hydroxy-α-benzamidocinnamic acid, 487.
$C_{16}H_{13}ON_3$ Phenanthrene-9-aldehyde semicarbazone, 40.
$C_{16}H_{13}O_4N_3$ Nitrophenylazobenzoylacetones, 1625.
$C_{16}H_{14}O_6S_2$ 3-Methoxybenzoic acid-5-disulphide, 1380.
$C_{16}H_{15}O_3N_3$ 1-Hydroxy-3′- and -4′-aminophenyl-3:4-dihydrophthalazine-4-acetic acids, 1070.
$C_{16}H_{16}O_4N_2$ ω-Acetoxyresacetophenone phenylhydrazone, 372.
$C_{16}H_{16}O_4S_2$ *dl*-α-Carboxyphenylsulphonyl-α-*p*-tolylthioethane, 1509.
$C_{16}H_{16}O_6S_2$ α-*p*-Carboxyphenylsulphonyl-α-*p*-tolylsulphonylethane, 1510.
$C_{16}H_{17}O_2N$ 2:4-Dimethoxy-6-methylbenzanilide, 494.
$C_{16}H_{19}ON$ *m*-Methoxydiphenylmethyldimethylamine, and its hydrochloride, 1097.
$C_{16}H_{19}O_2Tl$ Diethylthallium diphenol, 1229.
$C_{16}H_{19}O_4N$ Methyl β-6:7-dimethoxyquinaldyl(4)-propionate, 1468.
$C_{16}H_{20}ON_2$ 6-Methoxy-2-piperidino-4-methylquinoline, 301.
$C_{16}H_{20}NBr$ Benzhydryltrimethylammonium bromide, 72.
$C_{16}H_{20}NBr_3$ Benzhydryltrimethylammonium tribromide, 73.
$C_{16}H_{21}ON_3$ 2-Methyl-2-β-phenylethyl*cyclo*hexanone semicarbazone, 1084.
$C_{16}H_{21}O_2N$ Methyltropacocaine, and its picrate, 1512.
$C_{16}H_{21}N_2I_2$ Bindschedler's green iodide hydriodide, 253.
$C_{16}H_{22}O_2N_2$ Acetylanagyramine, 508.
$C_{16}H_{23}ON$ α-*cyclo*Hexylpropion-*p*-toluidide, 1483.
$C_{16}H_{23}O_2N$ β-*n*-Amylglutaroanilic acid, 961.
$C_{16}H_{24}ON_2$ Dihydromethylanagyrine, 508.
$C_{16}H_{25}ON_2$ *dl*- and *l*-Eseretholes, and their salts, 1474.

16 IV

$C_{16}H_9O_3N_2Br_4$ 5-Bromo-4-hydroxy-3-benzoyl-1-(2′:4′:6′-tribromophenyl)pyrazole, 482.
$C_{16}H_9O_3N_2Br_3$ 5-Bromo-4-hydroxy-3-benzoyl-1-(2′:4′-dibromophenyl)pyrazole, 482.
4-Hydroxy-3-benzoyl-1-(2′:4′:6′-tribromophenyl)pyrazole, 482.
$C_{16}H_9O_3N_2Br_5$ 4:4-Dibromo-1:2:3-triketo-1-phenylbutane-2-(2′:4′:6′-tribromophenylhydrazone), 481.
$C_{16}H_9O_4N_3Cl_2$ 5:5-Dichloro-3-benzoyl-1-nitrophenyl-4-pyrazolones, 1626.
$C_{16}H_9O_9N_2S$ Dinitronaphthyl *m*-nitrobenzenesulphonates, 287.
$C_{16}H_{10}O_3N_2Br_2$ 4-Hydroxy-3-benzoyl-1-(2′:4′-dibromophenyl)pyrazole, 482.
$C_{16}H_{10}O_3N_2Br_4$ 4-Bromo-1:2:3-triketo-1-phenylbutane 2-(2′:4′:6′-tribromophenylhydrazone), 481.

$C_{16}H_{10}O_2NCl$ Chloroacetamidoanthraquinones, 448.
$C_{16}H_{10}O_4N_2Cl$ 5-Chloro-4-hydroxy-3-benzoyl-1-nitrophenylpyrazoles, 1626.
$C_{16}H_{10}O_4N_2Br$ 5-Bromo-4-hydroxy-3-benzoyl-1-*p*-nitrophenylpyrazole, 1626.
$C_{16}H_{10}O_7N_2S$ Nitronaphthyl *m*-nitrobenzenesulphonates, 287.
$C_{16}H_{11}O_2N_2Br_3$ 4-Bromo-1:2:3-triketo-1-phenylbutane 2-dibromophenylhydrazones, 481.
4:4-Dibromo-1:2:3-triketo-1-phenylbutane 2-*p*-bromophenylhydrazone, 481.
2:4:6-Tribromophenylazobenzoylacetone, 481.
$C_{16}H_{11}O_4NS$ 2-Nitrophenyl 2-hydroxy-1-naphthyl sulphoxide, 1493.
$C_{16}H_{11}O_4N_2Br_3$ δδ-Dibromo-αβγ-α-phenylbutane β-*p*-nitrophenylhydrazone, 1626.
$C_{16}H_{12}O_2N_2Br_2$ 2:4-Dibromophenylazobenzoylacetone, 481.
$C_{16}H_{12}O_4N_2Br$ δ-Bromo-αβγ-triketo-α-phenylbutane β-nitrophenylhydrazones, 1626.
$C_{16}H_{13}O_7NCl$ 3′-Nitro-3:5:7-trihydroxy-4′-methoxyflavylium chloride, 28.
$C_{16}H_{14}ON_2S$ 2′-Acetamido-1-phenyl-3-methylbenzthiazole, 297.
$C_{16}H_{14}O_6N_2As$ Fluorenone-7-glycineureide-2-arsonic acid, and its sodium salt, 1455.
$C_{16}H_{15}O_5N_2As$ *p*-Oxyarsinomethylmalonanilide, 1067.
$C_{16}H_{17}O_5N_2As$ Methylmalonanilide-*p*-arsonic acid, and its sodium salt, 1067.
$C_{16}H_{18}O_4N_2S$ *tert.*-Butyl-*m*-nitrobenzenesulphonanilide, 948.
$C_{16}H_{18}O_6N_2As_2$ Methylmalonanilide-*pp*′-diarsonic acid, 1067.
$C_{16}H_{18}N_2IS$ Methylene blue iodide, 250.
$C_{16}H_{19}ON_2S$ Methylene blue base, 250.
$C_{16}H_{19}O_3NS$ Anisylmethyl-*p*-toluenesulphonamide, 278.
$C_{16}H_{19}O_4NS$ *o*-Vanillylmethyl-*p*-toluenesulphonamide, 278.
$C_{16}H_{19}NBrAs$ 10:10-Diethyl-5:10-dihydrophenarsazonium bromide, 1637.
$C_{16}H_{19}NIAs$ 10:10-Diethyl-5:10-dihydrophenarsazonium iodide, 1637.
$C_{16}H_{19}N_2I_2S$ Methylene blue iodide hydriodide, 251.
$C_{16}H_{20}N_2I_2S$ Methylene blue iodide dihydriodide, 252.
$C_{16}H_{21}N_2I_2S$ Leucomethylene blue dihydriodide, 251.
$C_{16}H_{24}O_{12}BK$ Potassium ethyl borotartrate, 954.
$C_{16}H_{26}O_4NI$ Homopiperonylmethylaminodiethylacetal methiodide, 278.
$C_{16}H_{27}O_6NS$ Methylglycosidodimethylammonium *p*-toluenesulphonate, 226.

C_{17} Group.

$C_{17}H_{12}$ Pentadienophenanthrene, 1110.
*cyclo*Pentadienophenanthrene, 1087.
$C_{17}H_{14}$ 1:2-*cyclo*Pentenophenanthrene, 1109.
$C_{17}H_{16}$ 1-(β-1′-Naphthylethyl)-Δ^1-*cyclo*pentene, 1108.
1:2-*cyclo*Pentano-1:2:3:4-tetrahydrophenanthrene, 1086.
trans-1:2-*cyclo*Pentanotetrahydrophenanthrene, 1108.

17 II

$C_{17}H_{10}O_4$ 4:7′-Dihydroxynaphtha(1:2:4′:3′)coumarin, 1470.
$C_{17}H_{12}O_2$ 4-Styrylcoumarin, 617.
$C_{17}H_{12}O_5$ 7-Hydroxy-7′-methoxychromenochromone, 492.
7-Hydroxy-4-phenylcoumarin-3-acetic acid, 1470.
$C_{17}H_{12}N_2$ 6-Methyl-8:9-benzquinoquinoline, and its chloroplatinate, 391.
$C_{17}H_{14}O_3$ 7-Hydroxy-3-benzyl-2-methylchromone, 1462.
7-Hydroxy-3-phenyl-4-ethylcoumarin, 1462.
$C_{17}H_{14}O_4$ 4-*O*-Cinnamoylresacetophenone, 1388.
O-Dimethyldaidzein, 275.
7-Hydroxy-3-phenyl-4-methoxymethylcoumarin, 1462.
$C_{17}H_{14}O_5$ *O*-Benzoyl-*O*-acetylresacetophenones, 1384.
7-Hydroxy-3′:4′-dimethoxyflavone, 1387.
$C_{17}H_{14}O_7$ Tricin, synthesis of, 1644.
5:7:4′-Trihydroxy-3′:5′-dimethoxyflavone, 943.
$C_{17}H_{16}O_6$ Hydroxymethoxybenzoylmethoxytoluic acid, 489.
$C_{17}H_{16}O_7$ 5-Methoxyphenoxyacetic acid 2-resacetophenone, 491.
$C_{17}H_{18}O_4$ 6-Benzyloxy-2:3-dimethoxyacetophenone, 1623.
2′-Hydroxy-2:4-dimethoxy-β-phenylpropiophenone, 290.
$C_{17}H_{20}O$ 1-(β-1′-Naphthylethyl)*cyclo*pentanol, 1107.
$C_{17}H_{20}O_2$ 2-Methoxy-5-methyl-2′-α-hydroxy*iso*propyldiphenyl, 1404.
$C_{17}H_{20}O_4$ α-2:4-Dimethoxyphenyl-γ-*o*-hydroxyphenyl-*n*-propyl alcohol, 290.
$C_{17}H_{22}O_4$ 5:7-Diethoxy-2:8-dimethyl-3-ethylchromone, 821.
$C_{17}H_{24}O_5$ 2-Acetoxy-4:6-diethoxy-3-methyl-*n*-butyrophenone, 821.
$C_{17}H_{28}N_2$ Sparteine, structure of, 644.
$C_{17}H_{36}O$ Heptadecyl alcohol, equilibria of, with its homologues, 1348.

17 III

$C_{17}H_8OCl_2$ 7:13-Dichlorobenzanthrone, 447.
$C_{17}H_8O_{11}N_2$ Di-(6-nitro-4-ketobenzdioxinyl) ketone, 700.
$C_{17}H_9OCl$ Chlorobenzanthrones, 447.
$C_{17}H_{10}OCl_2$ Phenyl 5:8-dichloro-α-naphthyl ketone, 448.
$C_{17}H_{11}OCl$ *m*-Chlorophenyl β-naphthyl ketone, 447.
$C_{17}H_{11}O_4N_3$ 3′:5′-Dinitrostyrylquinoline, 315.

$C_{17}H_{11}O_7N_3$ 2-Phenyl-4-(3′:5′-dinitro-2′-methoxybenzylidene)oxazolone, 487.
$C_{17}H_{12}ON_2$ 2-*o*-Carboxyphenylaminolepidine, and its hydrochloride, 391.
7-Keto-6-methyl-7:10-dihydro-8:9-benzquinoquinoline, and its sulphate, 391.
$C_{17}H_{12}O_5N_2$ Di-(6-nitrobenzdioxinyl) ketone, 700.
$C_{17}H_{13}O_6N_3$ Methyl $a\beta\gamma$-triketo-γ-phenyl-*n*-butyrate β-*o*-nitrophenylhydrazone, 1626.
$C_{17}H_{14}O_2N_2$ 4-*o*-Carboxyphenylaminoquinaldine, 391.
$C_{17}H_{14}O_4Cl_2$ 3-Chloro-2′-hydroxy-7:4′-dimethoxyflavylium chloride, 290.
$C_{17}H_{14}O_5N_2$ Di-(6-nitrobenzdioxinyl)methane, 700.
5:5′-Dinitro-2:2′-diacetoxydiphenylmethane, 699.
$C_{17}H_{15}ON$ 1-Benzoyl-2:3-dimethylindole, 958.
9-Phenanthrylmethylamine acetate, 40.
$C_{17}H_{15}O_2N$ 6:7-Methylenedioxy-4-phenyl-2-methyl-1:2-dihydro*iso*quinoline, and its picrate, 278.
$C_{17}H_{15}O_5N_3$ 1-Keto-3-(4′-nitrophenyl)-2-methyltetrahydrophthalazine-4-acetic acid, 1069.
$C_{17}H_{16}ON_2$ 2-Anilino-6-methoxylepidine, 1032.
2-Anisidinolepidines, 1032.
$C_{17}H_{17}ON$ 3-Methyl-3-β-phenoxyethylindolenine, and its picrate, 273.
$C_{17}H_{17}O_3N$ Phenacylhomopiperonylmethylamine, and its picrate, 278.
$C_{17}H_{17}O_5N_3$ 1-Hydroxy-4-amino-*o*-tolyl-3:4-dihydrophthalazine-4-acetic acid, 1070.
$C_{17}H_{17}O_4N$ Carvacryl *p*-nitrobenzoate, 980.
$C_{17}H_{17}O_5N$ Carbomethoxy*iso*everninanilide, 494.
$C_{17}H_{17}O_6N$ β-3:4-Dimethoxyphenylethyl *p*-nitrobenzoate, 1466.
$C_{17}H_{18}O_4S$ α-*p*-Carboxyphenylsulphonyl-β-phenylethane, 1508.
$C_{17}H_{18}O_4S_2$ *p*-Carbethoxyphenylsulphone-*p*-tolylthiomethane, 1508.
d- and *l*-Carbomethoxyphenylsulphonyl-α-*p*-tolylthioethanes, 1510.
$C_{17}H_{18}O_5N_4$ γ-Phenoxy-α-methylbutaldehyde 2:4-dinitrophenylhydrazone, 1476.
$C_{17}H_{18}O_6S_2$ *p*-Carbethoxyphenylsulphonyl-*p*-tolylsulphonylmethane, 1508.
$C_{17}H_{18}N_4S_2$ Methylene blue thiocyanate, 250.
$C_{17}H_{19}O_4N$ β-3:4-Dimethoxyphenylethyl phenylurethane, 1466.
$C_{17}H_{19}O_5N$ 6:7-Dimethoxy-3-acetyl-2-methylquinoline-4-propionic acid, 1089.
$C_{17}H_{20}ON_2$ *s*-Di-(dimethylphenyl) ureas, 1263.
$a\beta$-Diphenyl-β-*tert.*-butylurea, 949.
$C_{17}H_{20}O_2N_2$ *m*-Hydroxydiphenyldimethylamine methylurethane, 1097.
$C_{17}H_{20}O_3N_2$ *s*-Di-*p*-phenetylurea, 1263.
$C_{17}H_{21}O_4N_2$ β-6:7-Dimethoxyquinaldyl(4)-ethylurethane, 1468.
$C_{17}H_{22}O_6N_2$ Menthyl 3:5-dinitrobenzoates, 172.
$C_{17}H_{23}NI$ $\alpha\alpha$-Diphenylethyltrimethylammonium iodide, 73.
$C_{17}H_{23}O_3N_3$ Ethyl 2-β-phenylethyl*cyclo*pentan-1-one-2-carboxylate, 1084.
$C_{17}H_{23}O_4N$ Menthyl *p*-nitrobenzoates, 172.
$C_{17}H_{23}N_2I$ *o*-(2-Dimethylaminophenyl)phenyltrimethylammonium iodide, resolution of, 135.
$C_{17}H_{26}ON_2$ Lupanine, structure of, 644.

17 IV

$C_{17}H_{16}O_2NBr$ 3-Bromo-4-diacetamidodiphenylmethane, 1063.
$C_{17}H_{16}O_6NAs$ 7-Acetamido-9-acetoxyfluoreno-2-arsonic acid, 1456.
$C_{17}H_{16}O_6N_2As$ Fluorenone-7-glycinemethylureide-2-arsonic acid, and its sodium salt, 1455.
$C_{17}H_{16}O_5NCl$ Aminohydroxydimethoxyflavylium perchlorates, 26.
$C_{17}H_{16}O_6N_2As$ 9-*O*-Carbamylmethylfluorenol-7-glycineamide-2-arsonic acid, and its disodium salt, 1457.
$C_{17}H_{19}O_2NCu$ Piperidinocupric diphenol, 1230.
$C_{17}H_{19}O_4NS$ Piperonylethyl-*p*-toluenesulphonamide, 278.
$C_{17}H_{21}O_2NS$ *tert.*-Butyl-*p*-toluenesulphonanilide, 948.
$C_{17}H_{22}ON_2Cl$ 1-Dimethylamino-5-furyl-Δ^4-penten-3-one phenylhydrazone hydrochloride, 839.
$C_{17}H_{25}N_2IS_2$ 3:3′-Diethylthiazolinotricarbocyanine iodide, 192.

C_{18} Group.

$C_{18}H_{18}$ Hexahydrochrysenes, 609.
$C_{18}H_{22}$ 1:2-(5′-Methyl*cyclo*pentano)-1:2:3:4-tetrahydrophenanthrene, 1086.
$C_{18}H_{38}$ Octadecane, polymorphism of, 1348.

18 II

$C_{18}H_{12}O_4$ 6:7:3′:4′-Bismethylenedioxy-2-phenylnaphthalene, 1531.
4-Hydroxy-7′-methoxynaphtha(1:2:4′:3′)coumarin, 1471.
$C_{18}H_{12}O_5$ 7-Acetoxychromenochromone, 493.
$C_{18}H_{12}O_6$ Dimethyl anthraquinone-1:2-dicarboxylate, 1595.
$C_{18}H_{14}O$ 1-Keto-1:2:3:4-tetrahydro-5:6-benzanthracene, 1014.
$C_{18}H_{14}O_2$ Diketohexahydrochrysenes, 608.
β-Naphthyl phenylacetate, 1462.
1-Phenylacetyl-2-naphthol, 1462.
$C_{18}H_{14}O_3$ β-Phenanthroylpropionic acids, 1014.
$C_{18}H_{14}O_5$ 5-Acetoxy-8-methoxyflavone, 1624.
6-Acetoxy-4′-methoxyflavone, 1075.
7-Methoxy-4-phenylcoumarin-3-acetic acid, 1470.
$C_{18}H_{14}O_6$ 7:4′-Dimethoxy*iso*flavone-2-carboxylic acid, 275.
$C_{18}H_{15}N$ Naphthylidenebenzylamines, 41, 42.
$C_{18}H_{16}O_2$ γ-(3-Phenanthryl)butyric acid, 1014.

$C_{18}H_{16}O_4$ Benzoylphenacylcarbinyl acetate, 625.
$C_{18}H_{16}O_6$ 6-Hydroxy-3′:4′:5′-trimethoxyflavone, 1075.
$C_{18}H_{16}O_7$ Usnic acid, 1173.
$C_{18}H_{18}O$ 1-α-Naphthylacetyl-2-methyl-Δ^1-*cyclo*pentene, 1107.
$C_{18}H_{18}O_5$ 2:4′-Dihydroxy-4:6-dimethoxy-3-methylchalkone, 444.
2′-Hydroxy-2:4:4′-trimethoxybenzylideneacetophenone, 290.
4:5:6:4′-Tetramethoxy-3-phenylcoumarone, 375.
$C_{18}H_{18}O_8$ Tephrosic acid, structure of, 1163.
$C_{18}H_{20}O$ 5-Methyl-2-β-(α-naphthyl)ethyl*cyclo*pentanone, 1086.
$C_{18}H_{20}O_3$ 2-Acetoxy-5-methyl-2′-α-hydroxy*iso*propyldiphenyl, 1404.
$C_{18}H_{20}O_4$ ββ′-Dihydroxy-ββ′-dianisyladipic acid, 828.
α-[β-(α-Naphthyl)ethyl]adipic acid, 1086.
2:4:2′-Trimethoxy-β-phenylpropiophenone, 289.
$C_{18}H_{20}O_6$ 3:4:5-Trimethoxyphenyl *p*-methoxyphenacyl ether, 375.
$C_{18}H_{26}O_5$ Ethyl ε-phenoxy-γ-methylpentane-ββ-dicarboxylate, 1475.
$C_{18}H_{26}O_{12}$ Methyl βγ-dimethyl-*n*-butane-ααβγδδ-hexacarboxylate, 814.
$C_{18}H_{28}Si$ Di*cyclo*hexylphenylsilicane, 1042.
$C_{18}H_{34}O_2$ Oleic acid, conductivity of mixtures of, with its potassium salt and water, 928.
$C_{18}H_{38}O$ Octadecyl alcohol, equilibria of, with hexadecyl and heptadecyl alcohols, 637.
$C_{18}H_{38}O_3$ 9:10-Dihydroxyoctadecyl alcohols, 248.

18 III

$C_{18}H_9O_4Br_3$ Tribromopiperonylmethylenedioxynaphthalene, 1531.
$C_{18}H_{11}O_6N$ Nitropiperonylmethylenedioxynaphthalene, 1531.
$C_{18}H_{12}O_2N_2$ 9-*o*-Nitrophenylcarbazole, 1525.
$C_{18}H_{14}O_7N_6$ Ethyl 4:5-diketo-1-(4′-nitrophenyl)pyrazolone-3-carboxylate 4-(4″-nitrophenylhydrazone), 1392.
$C_{18}H_{15}O_2N_3$ 2-*o*-Nitrophenylamino-2′-aminodiphenyl, 1522.
$C_{18}H_{15}O_3N$ β-Phenanthroylpropionic acid oxime, 1014.
$C_{18}H_{15}O_5Cl$ 4:6-Diphenyl-2-methylpyrylium perchlorate, 1198.
$C_{18}H_{15}O_6N_3$ Ethyl αβγ-triketo-γ-phenyl-*n*-butyrate β-nitrophenylhydrazones, 1626.
$C_{18}H_{16}O_{10}N_2$ Nitrobenzyl tartrates, and their rotation dispersion, 760.
$C_{18}H_{17}O_2N$ Naphthylmethylamine benzoates, 41, 42.
$C_{18}H_{17}O_3N$ 9:10-Dihydroxy-8-benzoyltetrahydropentindole, 300.
$C_{18}H_{17}O_3N_3$ 1-Nitro-4-piperidinoacridone, 1372.
$C_{18}H_{17}O_5N_3$ Methyl 1-keto-3-(4′-nitrophenyl)-2-methyltetrahydrophthalazine-4-acetate, 1069.
$C_{18}H_{17}O_5Cl$ 3-Chloro-7:3′:4′-trimethoxyflavanone, 290.
$C_{18}H_{17}O_6Cl$ Morinidin 3:5:7-trimethyl ether, 290.
$C_{18}H_{18}ON_2$ 2-Anilino-6-ethoxylepidine, 1032.
2-Phenetidinolepidines, 1032.
$C_{18}H_{18}O_2N_2$ 2-Anisidino-6-methoxylepidines, 1032.
$C_{18}H_{18}O_4S_2$ Bis-*p*-carbethoxyphenyl disulphide, 1507.
$C_{18}H_{19}O_2N$ 5-Methoxy-3-methyl-3-β-phenoxyethylindolenine, and its picrate, 1476.
$C_{18}H_{20}O_4S_2$ *dl*-α-*p*-Carbethoxyphenylsulphonyl-α-*p*-tolylthioethane, 1509.
$C_{18}H_{20}O_6S_2$ α-*p*-Carbethoxyphenylsulphonyl-α-*p*-tolylsulphonylethane, 1510.
$C_{18}H_{21}ON_3$ 2-β-(α-Naphthylethyl)*cyclo*pentanone, 1086.
$C_{18}H_{21}O_3N$ Metathebainone, 1038.
$C_{18}H_{23}OP$ *p*-Phenoxyphenyldi*iso*propylphosphine, 1044.
$C_{18}H_{24}O_9N_2$ 3-Tetra-aceto-β-glucosido-4-methylglyoxaline, 666.
$C_{18}H_{25}ON$ α-Methyl-*trans*-hexahydrohydrindene-2-acetanilide, 1487.
$C_{18}H_{26}O_7N_2$ *l*-Esermethole tartrate, 271.

18 IV

$C_{18}H_{13}O_5NS$ 2-Nitrophenyl 2-acetoxy-1-naphthyl sulphoxide, 1493.
$C_{18}H_{13}O_8N_3S_2$ Di-*m*-nitrobenzenesulphonanilide, 1290.
$C_{18}H_{14}O_7N_6Cl_6$ Bis-(βββ-trichloro-α-*N*′-nitrophenylcarbamidoethyl) ethers, 31.
$C_{18}H_{17}ON_4Cl_5$ α-Keto-β-methoxybutaldehyde pentachlorodiphenylosazone, 1490.
$C_{18}H_{18}O_6N_2Br$ 3-Bromo-2′-nitro-*NN*′-dicarbethoxybenzidine, 1590.
$C_{18}H_{18}O_9NCl$ 3′-Amino-3-hydroxy-5:7:4′-trimethoxyflavylium perchlorate, 27.
$C_{18}H_{20}O_4NI$ 2:3:11:12-Tetrahydroxy-8-methyl-6:7:15:16-tetrahydro-5:18:9:14-dibenzpyridocolinium iodide, 1585.
$C_{18}H_{21}O_5N_2As$ Adipanilide-*p*-arsonic acid, and its sodium salt, 93.
$C_{18}H_{22}O_4N_2S$ *tert.*-Hexyl-*m*-nitrobenzenesulphonanilide, 950.
$C_{18}H_{22}O_8N_2As_2$ Adipanilic-*pp*′-diarsonic acid, and its disodium salt, 93.
$C_{18}H_{25}N_3I_2S$ Leucomethylene blue, 251.

C_{19} Group.

$C_{19}H_{14}$ Methyl-1:2-benzanthracenes, 1595.
$C_{19}H_{22}$ 3:4-Diphenyl-5:5-dimethyl*cyclo*pentane, 726.

19 II

$C_{19}H_{12}O_2$ 5-Methyl-1:2-benzanthraquinone, 1596.
Triphenylenecarboxylic acid, 404.

$C_{19}H_{14}N_2$ Benzylideneharman, 615.
$C_{19}H_{16}O_4$ 7-Acetoxy-3-phenyl-4-ethylcoumarin, 1462.
$C_{19}H_{16}O_5$ 7-Acetoxy-3-phenyl-4-methoxymethylcoumarin, 1462.
7:4′-Dimethoxy-2-methyl*iso*flavone, 274.
Ethyl 7-hydroxy-4-phenylcoumarin-3-acetate, 1469.
$C_{19}H_{16}O$ 3:4-Diphenyl-5:5-dimethyl-Δ^3-*cyclo*pentenone, 726.
$C_{19}H_{18}O_3$ 2-Hydroxy-3:4-oxido-3:4-diphenyl-5:5-dimethyl*cyclo*pentanone, 725.
$C_{19}H_{18}O_7$ 7-Hydroxy-3:3′:4′:5′-tetramethoxyflavone, 269.
$C_{19}H_{18}O_8$ Atranorin, 131.
$C_{19}H_{20}O$ Dihydro-$\beta\beta$-dimethylanhydroacetonebenzil, 727.
$C_{19}H_{20}O_5$ 2-Hydroxy-4:6:4′-trimethoxy-3-methylchalkone, 443.
5:7:4′-Trimethoxy-8-methylflavanone, 444.
$C_{19}H_{20}O_6$ 2′-Hydroxy-3:4:4′:6′-tetramethoxybenzylideneacetophenone, 290.
$C_{19}H_{20}O_7$ Methyl *O*-dimethyl-lecanorate, 494.
$C_{19}H_{20}N_2$ Cinchene, cuprichloride of, 999.
$C_{19}H_{22}O_4$ Acid, from reduction of ethyl $\beta\beta'$-dihydroxy-$\beta\beta'$-dianisyladipate, 828.
Methyl $\beta\beta'$-dihydroxy-$\beta\beta'$-dianisyladipate, 828.
α-Methyl-α'-[β-(α-naphthyl)ethyl]adipic acid, 1086.
$C_{19}H_{22}O_6$ 2′-Hydroxy-3:4:4′:6′-tetramethoxy-β-phenylpropiophenone, 290.
$C_{19}H_{24}O_6$ α-3:4-Dimethoxyphenyl-γ-2-hydroxy-4:6-dimethoxyphenyl-*n*-propyl alcohol, 290.
$C_{19}H_{24}O_8$ Ethyl $\alpha\alpha$-veratroylacetylsuccinate, 1471.
$C_{19}H_{24}O_9$ 3:4:6-Triacetyl β-benzylglucoside, 225.
$C_{19}H_{30}O_{10}$ Ethyl *n*-butane-$\alpha\beta\gamma\gamma\delta$-pentacarboxylate, 814.
$C_{19}H_{38}O_2$ Heptadecyl acetate, 637.
$C_{19}H_{38}O_2$ Ethyl margarate, equilibria of, with ethyl palmitate and stearate, 636.

19 III

$C_{19}H_{12}O_5Cl_2$ 9-*p*-Chlorophenylxanthylium perchlorate, 484.
$C_{19}H_{12}O_7N_4$ Benzophenoneoxime picryl ether, 809.
$C_{19}H_{13}O_2N$ Phthalonaphthylmethylimides, 41, 42.
$C_{19}H_{13}O_2Cl$ 9-*p*-Chlorophenylxanthenol, 484.
$C_{19}H_{13}O_4N$ 9-*p*-Nitrophenylxanthenol, 484.
$C_{19}H_{14}O_4N_4$ Diphenyl-3-aldehyde 2:4-dinitrophenylhydrazone, 44.
$C_{19}H_{15}ON$ Diphenylcarboxyanilides, 42, 44.
$C_{19}H_{15}O_5N$ 4-*O*-Methylresorcylaldehyde, 493.
$C_{19}H_{15}O_3Br$ 4-Bromo-1-acetoxy-2-methoxy-9-anthranyl acetate, 1517.
$C_{19}H_{15}Cl_2P$ Triphenylmethyldichlorophosphine, 783.
$C_{19}H_{17}OCl$ Chloro-3:4-diphenyl-5:5-dimethyl*cyclo*pentenones, 729.
Phenyl-*p*-chlorophenyl-5:5-dimethyl-Δ^3-*cyclo*pentenone, 731.
$C_{19}H_{17}O_3P$ Triphenylmethylhydrogenphosphonic acid, and its silver salt, 83.
$C_{19}H_{17}O_6N_5$ γ-Phthalimido-α-methylbutaldehyde 2:4-dinitrophenylhydrazone, 1477.
$C_{19}H_{17}O_7N_3$ 1-Ethyl 2-benzyl diketosuccinate 1-*p*-nitrophenylhydrazone, 1392.
$C_{19}H_{19}O_6N$ β-6-Benzamido-3:4-dimethoxybenzoylpropionic acid, 1089.
$C_{19}H_{19}O_6Cl$ 7-Methoxy-4-phenyl-3-methyl-2-ethylbenzopyrylium perchlorate, 433.
$C_{19}H_{19}O_{10}N_3$ *O*-Dimethylusneol, 718.
$C_{19}H_{20}ON_2$ 1-Phenylcarbamyl-2:2:4-trimethyl-1:2-dihydroquinoline, 1328.
$C_{19}H_{20}O_2N_2$ 2-Anisidino-6-ethoxylepidines, 1032.
2-Phenetidino-6-methoxylepidines, 1032.
$C_{19}H_{20}O_5S$ α-*p*-Carbethoxyphenylsulphonyl-α-benzylacetone, 1508.
$C_{19}H_{20}O_5S_2$ α-*p*-Carbethoxyphenylsulphonyl-α-*p*-tolylthioacetone, 1508.
$C_{19}H_{21}O_2N$ 5-Methoxy-1:2-dimethyl-3-β-phenoxyethylindole, 272.
$C_{19}H_{21}O_4N$ Methyl 4′-diethylamino-2′-hydroxy-*o*-benzoylbenzoate, 1267.
$C_{19}H_{21}O_6N$ 3:4:5-Trimethoxyphenyl *p*-methoxyphenacyl ether cyanohydrin, 375.
$C_{19}H_{22}ON_2$ Cinchonidine, cuprichloride of, 999.
Cinchonine, cuprichloride of, 999.
$C_{19}H_{22}ON_2$ 5-Methyl-2-β-(α-naphthyl)ethyl*cyclo*pentanone, 1086.
$C_{19}H_{23}O_4N$ 6-Hydroxy-7-methoxy-1-(4′-methoxy-3′-hydroxybenzyl)-2-methyl-1:2:3:4-tetrahydro*iso*-quinoline, and its picrolonate, 281.
$C_{19}H_{24}O_2N_2$ α-*m*-Hydroxyphenyl-*n*-butyldimethylamine phenylurethane, 1097.
$C_{19}H_{25}ON_3$ 1-β-Phenylethyl*cyclo*hexene nitrolpiperidide, 1464.
$C_{19}H_{28}O_6N_4$ $\alpha\gamma$-Dipiperidino-β-(2:4-dinitrophenyl) propane, 302.
$C_{19}H_{29}ON_3$ *trans*-Hexahydrohydrindylidene-2-*trans*-hexahydrohydrindene, 1479.

19 IV

$C_{19}H_{10}O_7N_4Cl_2$ Di-*p*-chlorophenylketoxime picryl ether, 811.
$C_{19}H_{11}O_7N_4Cl$ *p*-Chlorobenzophenone oxime picryl ethers, 810.
$C_{19}H_{14}O_{10}N_4S_2$ Di-*m*-nitrobenzenesulphonnitrotoluidides, 1290.
$C_{19}H_{15}O_6N_3S_2$ Di-*m*-nitrobenzenesulphontoluidides, 1290.
$C_{19}H_{19}O_4Cl_4Fe$ 5:7:4′-Trimethoxy-8-methylflavylium ferrichloride, 442.
$C_{19}H_{22}O_2NI$ 5-Methoxy-3-methyl-3-β-phenoxyethylindolenine methiodide, 1476.
$C_{19}H_{25}O_2NS$ *tert.*-Hexyl-*p*-toluenesulphonanilide, 950.
$C_{19}H_{26}OIP$ *p*-Phenoxyphenyldi*iso*propylphosphine methiodide, 1044.
$C_{19}H_{27}O_9N_2I$ 3-Tetra-aceto-β-glucosido-4-methylglyoxaline methiodide, 666.

C_{20} Group.

$C_{20}H_{12}$ Benzpyrenes, and their picrates, 397, 403.

20 II

$C_{20}H_{10}O_2$ 1:2-Benzpyrenequinone, 403.
$C_{20}H_{12}O_3$ Acetyl-1:2-benzanthraquinones, 1409.
$C_{20}H_{14}O$ Acetyl-1:2-benzanthracenes, 1409.
$C_{20}H_{14}O_2$ Methyl triphenylenecarboxylate, 404.
3-Phenyl-2-methyl-1:4-$\beta\alpha$-naphthapyrone, 1462.
γ-1-Pyrenyl-γ-butyrolactone, 402.
$C_{20}H_{14}O_3$ β-1-Pyrenoylpropionic acid, 402.
$C_{20}H_{14}O_5$ 4-Acetoxy-7′-methoxynaphtha(1:2:3′:4′)coumarin, 1470.
$C_{20}H_{14}O_6$ Trimethyl anthraquinonetricarboxylates, 1595.
$C_{20}H_{15}Br$ β-Bromo-$\alpha\alpha\beta$-triphenylethylene, 74.
$C_{20}H_{16}O_2$ 2-Benzoyloxy-5-methyldiphenyl, 1405.
γ-1-Pyrenylbutyric acid, 402.
$C_{20}H_{16}O_6$ 5:7-Diacetoxy-3-phenyl-4-methylcoumarin, 1461.
α-Piperonylidene-β-3:4-dimethoxybenzoylpropionic lactone, 1088.
$C_{20}H_{16}N_2$ 1:1′-Hydrazonaphthalene, 134.
$C_{20}H_{17}N$ Phenylbenzylidenebenzylamines, 43, 44.
$C_{20}H_{18}O$ 3:4-Diphenyl-5:5-dimethyl-2-methylene-Δ^3-*cyclo*pentenone, 729.
$C_{20}H_{18}O_4$ 2:11-Diketo-5:14-dimethoxyhexahydrochrysene-a, 609.
$C_{20}H_{18}O_5$ 7-Acetoxy-2′-methoxy-3-benzyl-2-methylchromone, 289.
$C_{20}H_{18}O_7$ 6-Acetoxy-3′:4′:5′-trimethoxyflavone, 1075.
$C_{20}H_{18}N_2$ Quinaldine, cuprichloride of, 999.
$C_{20}H_{20}O$ 1′-Ketodecahydro-4:5-benzpyrene, 405.
$C_{20}H_{20}O_2$ γ-1:2:3:6:7:8-Hexahydro-4-pyrenyl-γ-butyrolactone, 405.
$C_{20}H_{20}O_2$ Methoxy-3:4-diphenyl-5:5-dimethyl*cyclo*pentenones, 730.
$C_{20}H_{20}O_3$ β-1:2:3:6:7:8-Hexahydro-4-pyrenoylpropionic acid, 405.
$C_{20}H_{20}O_7$ *O*-Pentamethylrobinetin, 269.
$C_{20}H_{20}O_8$ Ethyl 7-hydroxy-4-veratroylcoumarin-3-acetate, 1471.
$C_{20}H_{22}O_2$ 5:14-Dimethoxyhexahydrochrysene-a, 610.
γ-1:2:3:6:7:8-Hexahydro-4-pyrenylbutyric acid, 405.
$C_{20}H_{22}O_6$ Acid, from reduction of ethyl $\beta\beta'$-dihydroxy-$\beta\beta'$-dianisyladipate, 828.
$\beta\gamma$-Dianisyladipic-a acid, 609.
$C_{20}H_{24}O_6$ 3:5:7:2′:4′-Pentamethoxyflavan, 290.
$C_{20}H_{24}O_8$ 3:4:5-Trimethoxyphenyl 3:4:5-trimethoxyphenacyl ether, 375.
$C_{20}H_{28}O_{13}$ Primeverin, 1620.
$C_{20}H_{32}Si$ Di*cyclo*hexylphenylethylsilicane, 1043.
$C_{20}H_{40}O_2$ Glycollaldehyde octadecyl ether, 166.
$C_{20}H_{40}O_3$ Glycollic acid octadecyl ether, 166.

20 III

$C_{20}H_{11}O_3N$ Nitro-1:2-benzpyrene, 403.
$C_{20}H_{14}O_4N_2$ Benzophenoneoxime *o*-nitrobenzoyl ester, 809.
$C_{20}H_{14}O_7N_4$ Benzophenoneoxime trinitro-*m*-tolyl ether, 811.
$C_{20}H_{15}ON$ 4′-Keto-1′:2′:3′:4′-tetrahydro-1:2-benzpyrene, 403.
$C_{20}H_{15}O_3N$ Benzophenoneoxime benzoyl ester, 809.
$C_{20}H_{15}O_6N$ Diacetylresorcylaldehyde azlactone, 493.
$C_{20}H_{15}O_8N$ α-6-Nitro-3:4-methylenedioxybenzylidene-β-3:4-dimethoxybenzoylpropionolactone, 1088.
$C_{20}H_{16}OS$ 7-Phenylthiodeoxybenzoin, 1529.
$C_{20}H_{16}O_5N_4$ Hydroxyphenyl benzyl ketone 2:4-dinitrophenylhydrazones, 1461.
$C_{20}H_{16}O_6N_4$ 5-Nitro-6-methoxyquinoline, cuprichloride of, 999.
$C_{20}H_{17}ON$ 4-Benzamidodiphenylmethane, 1062.
$C_{20}H_{18}O_2N_4$ ω:2:4-Trihydroxyacetophenone osazone, 372.
$C_{20}H_{18}O_4Be$ Beryllium benzoylacetonate, 1546.
$C_{20}H_{18}NAs$ 10-Benzyl-2-methyl-5:10-dihydrophenarsazine, 1636.
$C_{20}H_{19}ON$ Benzoyl-β-naphthyl*iso*propylamine, 496.
$C_{20}H_{19}O_2N$ 4-Phenylbenzylamine benzoate, 43.
$C_{20}H_{19}O_3P$ Methyl triphenylmethylhydrogenphosphonate, 783.
$C_{20}H_{19}O_4N$ 6:7-Dimethoxy-2-phenylquinoline-4-propionic acid, 1089.
$C_{20}H_{20}O_8N_6$ Ethyl diketosuccinate *p*-nitrophenylosazone, 1392.
$C_{20}H_{21}O_5N$ δ-5-Benzamido-2-methoxybenzoylvaleric acid, 1587.
$C_{20}H_{22}ON_2$ Quinene, cuprichloride of, 999.
$C_{20}H_{22}O_2N_2$ 2-Phenetidino-6-ethoxylepidines, 1032.
$C_{20}H_{24}ON_2$ Dihydroquinene, cuprichloride of, 999.
$C_{20}H_{24}O_2N_2$ Quinidine, cuprichloride of, 999.
Quinine, cuprichloride of, 999.
$C_{20}H_{24}O_8S$ 2-*p*-Toluenesulphonyl β-benzylglucoside, 225.
$C_{20}H_{24}NBr$ Dibenzyldiallylammonium bromide, 67.
$C_{20}H_{25}ON$ Dibenzyldiallylammonium hydroxide, and its picrate, 67.
$C_{20}H_{27}O_9N_5$ Dimethylaminohexose phenylosazone, 226.
$C_{20}H_{28}ClP$ $\beta\beta$-Diphenylethyltriethylphosphonium chloride, 532.
$C_{20}H_{30}O_2Hg$ Biscamphor-10-mercury, 825.

$C_{20}H_{31}OCl$ Chloro*trans*-β-decalone, 1480.
$C_{20}H_{34}ON_2$ Pentamethylpiperazine-α-methylenecamphor, 144.
$C_{20}H_{34}O_4S$ *l-neo*Menthyl camphorsulphonates, 169.
*iso*Menthyl camphorsulphonates, 173.

20 IV

$C_{20}H_8O_2Br_4S_2$ Tetrabromodehydro-2-naphthol 1-disulphide, 788.
$C_{20}H_{10}O_2Br_2S_2$ Dibromodehydro-2-naphthol 1-disulphides, 788.
$C_{20}H_{10}O_2Br_4S_2$ Tetrabromo-2-naphthol 1-disulphide, 787.
$C_{20}H_{12}O_2Br_2S_2$ Dibromo-2-naphthol 1-disulphide, 787.
$C_{20}H_{14}ON_2Br_2$ ω-Anilinophenylglyoxal 2:4:6-tribromophenylhydrazone, 481.
$C_{20}H_{14}O_7N_4Cl_2$ Di-*p*-chlorophenylketoxime trinitro-*m*-tolyl ether, 811.
$C_{20}H_{15}ONBr_2$ Dibromo-4-benzamidodiphenylmethanes, 1062.
$C_{20}H_{15}ONI_2$ 3:5-Di-iodo-4-benzamidodiphenylmethane, 1063.
$C_{20}H_{15}O_6N_2Cl$ Nitro-9-phenyl-10-methylacridinium perchlorate, 484.
$C_{20}H_{16}ONBr$ Bromo-4-benzamidodiphenylmethanes, 1062.
$C_{20}H_{16}O_4NCl$ 9-Phenyl-10-methylacridinium perchlorate, 484.
$C_{20}H_{16}O_4N_6Ni$ Nickel 4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
$C_{20}H_{17}O_4N_6Cs$ Cæsium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
$C_{20}H_{17}O_4N_6K$ Potassium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 841.
$C_{20}H_{17}O_4N_6Li$ Lithium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 841.
$C_{20}H_{17}O_4N_6Na$ Sodium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 841.
$C_{20}H_{17}O_4N_6Rb$ Rubidium di-4-*iso*nitroso-1-phenyl-3-methyl-5-pyrazolone, 842.
$C_{20}H_{17}O_5N_2As$ 7-Phenylcarbamido-9-fluorenol-2-arsonic acid, and its sodium salt, 1457.
$C_{20}H_{20}O_3N_4Cl_6$ Bis-(βββ-trichloro-α-*N'*-tolylcarbamidoethyl) ethers, 31.
$C_{20}H_{21}O_2NS$ β-Naphthyl*iso*propylamine *p*-toluenesulphonamide, 496.
$C_{20}H_{26}ON_3Cl$ 1-Phenyl-3-(β-piperidinoethyl)-5-furylpyrazoline hydrochloride, 840.
1-Piperidino-5-furyl-Δ^4-penten-3-one phenylhydrazone hydrochloride, 840.
$C_{20}H_{27}N_3I_2S$ Leucomethylene blue dimethiodide, 251.

C_{21} Group.

$C_{21}H_{14}O_2$ 2:3-Diphenylchromone, 1461.
$C_{21}H_{14}O_6$ 4:7'-Diacetoxynaphtha (1:2:4':3')coumarin, 1470.
$C_{21}H_{16}O_4$ 2-Hydroxy-4-benzoyloxyphenyl benzyl ketone, 1388.
$C_{21}H_{17}N$ α-Phenylethylidene-9-fluorenylamine, 1500.
$C_{21}H_{18}O$ 7-(1:2-Benz)anthranyldimethylcarbinol, 1410.
Diphenyl-*o*-tolylacetaldehyde, 336.
r-o- and *m*-Tolyldeoxybenzoins, 335.
o- and *m*-Tolyl diphenylmethyl ketones, 335.
$C_{21}H_{19}N$ Benzylidene-α-phenylethylamine, 1502.
$C_{21}H_{20}O_3$ 4-Acetoxy-3:4-diphenyl-5:5-dimethyl-Δ^2-*cyclo*pentenone, 727.
$C_{21}H_{20}O_8$ 7-Acetoxy-3:3':4':5'-tetramethoxyflavone, 269.
$C_{21}H_{22}O_2$ Ethoxy-3:4-diphenyl-5:5-dimethyl-Δ^2-*cyclo*pentenones, 726.
$C_{21}H_{22}O_3$ Ethyl 2-(β-1'-naphthylethyl)*cyclo*hexanone-2-carboxylate, 1015.
$C_{21}H_{22}O_6$ Methyl phenyl-2:4-dimethoxyphenylmethylenesuccinate, 1470.
$C_{21}H_{22}O_8$ 2:3'-Dibenzoyl α-methylglucoside, 1079.
Dimethylatranorin, 132.
$C_{21}H_{26}O_2$ *dl-neo*Menthyl β-naphthoate, 169.
$C_{21}H_{26}O_{12}$ Methyl 4-methoxysalicylate 2:3:4-*O*-triacetyl-β-glucoside, 1619.

21 III

$C_{21}H_{15}ON$ 9-Phenanthroyl anilide, 40.
$C_{21}H_{15}O_2N$ Phthalobenzhydrylimide, 1501.
Phthalo-*m*-diphenylmethylimide, 44.
$C_{21}H_{16}O_7N_4$ Di-*p*-tolylketoxime picryl ether, 811.
$C_{21}H_{17}O_3N_3$ β-1-Pyrenoylpropionic acid semicarbazone, 402.
$C_{21}H_{18}O_6S_3$ *p*-Carboxyphenyl-*p*-tolylsulphonylphenylthiomethane, 1509.
$C_{21}H_{18}NCl$ *p*-Chlorobenzhydrylidene-α-phenylethylamine, 1502.
$C_{21}H_{19}O_3N$ 6-Cinnamoyl-ψ-indoxyl*spirocyclo*pentane, 299.
$C_{21}H_{19}O_4N$ Ethyl 2-aldehydo-5-methoxyphenoxyacetate azlactone, 491.
$C_{21}H_{19}O_6N$ α-6-Nitroveratrylidene-β-3:4-dimethoxybenzoylpropionolactone, 1088.
$C_{21}H_{20}O_{12}N_2$ 2:3-Di-*p*-nitrobenzoyl α-methylglucoside, 1079.
$C_{21}H_{21}O_3P$ Ethyl triphenylmethylhydrogenphosphonate, 783.
$C_{21}H_{21}O_3P$ Methyl triphenylmethylphosphonate, 781.
$C_{21}H_{22}O_2N_2$ Strychnine, 486.
$C_{21}H_{23}O_3N$ Benzoyl-ψ-8:9-benz-$\Delta^{8:9}$-homogranaten-4-ol, and its salts, 555.
$C_{21}H_{23}O_3N_3$ β-1:2:3:6:7:8-Hexahydro-4-pyrenoylpropionic acid semicarbazone, 405.
$C_{21}H_{23}O_4N$ 2-β-Phenylethyl*cyclo*hexanol *p*-nitrobenzoate, 1464.
$C_{21}H_{25}O_4N$ 6:7-Dimethoxy-1-β-3':4'-dimethoxyphenylethyl-3:4-dihydro*iso*quinoline, 1585.
$C_{21}H_{26}O_{10}S_2$ 2:3-Di-*p*-toluenesulphonyl α-methylglucoside, 1080.
$C_{21}H_{27}O_5N$ β-3:4-Dimethoxyphenylpropiono-β-3':4'-dimethoxyphenylethylamide, 1584.
$C_{21}H_{43}O_2N$ Ethyl glycollate octadecyl ether methylamide, 167.

21 IV

$C_{21}H_{16}ON_2S$ 2′-Benzamido-1-phenyl-3-methylbenzthiazole, 297.
$C_{21}H_{17}O_2ClS$ 7-(5-Chloro-2-methoxyphenylthio)deoxybenzoin, 1529.

C_{22} Group.

$C_{22}H_{14}$ 3:4:5:6-Dibenzphenanthrene, 1597.
$C_{22}H_{16}$ 9:10-Dihydro-1:2:5:6-dibenzanthracene, 1596.
$C_{22}H_{18}$ 1:3-Diphenyl-2-methylindene, 1499.

22 II

$C_{22}H_{10}O_4$ 3:4:5:6-Dibenzphenanthra-1:2:7:8-diquinone, 1597.
$C_{22}H_{12}O_2$ 1:2:5:6-Dibenz-3:4-anthraquinone, 1596.
$C_{22}H_{14}O_4$ 7-Benzoyloxyflavone, 1385.
$C_{22}H_{16}O_5$ ω:4-Dibenzoylresacetophenone, 1385.
$C_{22}H_{16}O_{10}$ Tetramethyl anthraquinonetetracarboxylates, 1595.
$C_{22}H_{17}N$ Benzylidene-9-phenanthrylmethylamine, 40.
9-Phenanthrylidenebenzylamine, 40.
$C_{22}H_{18}O$ 1-Hydroxy-1:3-diphenyl-2-methylindene, 1499.
$C_{22}H_{18}O_3$ Ethyl β-1-pyrenoylpropionate, 402.
$C_{22}H_{20}O_7$ *apo*Picropodophyllins, 85.
$C_{22}H_{21}N$ *p*-Methylbenzhydrylidene-α-phenylethylamine, 1502.
$C_{22}H_{22}O_8$ 7-Hydroxy-5:5′:6′-trimethoxy-4-carbethoxyindenobenzopyrylium chloride, colour base of, 611.
*apo*Picropodophyllic acid, 85.
Podophyllotoxin, 83.
$C_{22}H_{23}N$ ααβ-Triphenylethyldimethylamine, and its salts, 74.
$C_{22}H_{24}O_6$ 1-Methyl 2-ethylphenyl-2:4-dimethoxyphenylmethylenesuccinate, 1470.
$C_{22}H_{24}O_8$ *O*-Trimethylatranorin, 132.
$C_{22}H_{26}O_6$ Methyl βγ-dianisyladipate-a, 609.
$C_{22}H_{26}O_8$ Ethyl 3:4:3′:4′-tetramethoxydiphenate, 1624.
$C_{22}H_{27}N_3$ 1:5-Diphenyl-3-(β-piperidinoethyl)pyrazoline, 839.
$C_{22}H_{28}O_3$ (−)Menthyl α-naphthaglycollates, 32.
$C_{22}H_{40}O_3$ *l-neo*Menthyl menthoxyacetates, 169.
$C_{22}H_{44}O_3$ Ethyl glycollate octadecyl ether, 167.

22 III

$C_{22}H_{13}O_5Br$ 4-Bromo-1-benzoyloxyalizarin 2-methyl ether, 1517.
$C_{22}H_{15}O_6N_3$ 2:4:6-Trinitro-1:3-distyrylbenzene, 980.
$C_{22}H_{15}O_7Cl$ 5-*O*-Benzoylmorinidin chloride, 372.
$C_{22}H_{16}O_4N_4$ 3-Phenyl-2-methylindenone 2:4-dinitrophenylhydrazone, 1499.
$C_{22}H_{18}O_2S$ 7′-Acetoxy-7-phenylthiostilbene, 1529.
$C_{22}H_{18}O_4N_4$ 3-Phenyl-2-methylindanone 2:4-dinitrophenylhydrazone, 1499.
$C_{22}H_{18}O_7N_4$ Di-*p*-tolylketoxime trinitro-*m*-tolyl ether, 811.
$C_{22}H_{19}O_2N$ 9-Phenanthrylmethylamine benzoate, 40.
$C_{22}H_{19}O_4N_3$ 2-*o*-Nitrophenylamino-2′-diacetylaminodiphenyl, 1522.
$C_{22}H_{20}O_5N_2$ 3-Keto-4-*o*-carboxybenzoyl-10-ethoxy-7-methyl-3:4:5:6-tetrahydro-4-ψ-carboline, 1473.
$C_{22}H_{20}O_6S_2$ *p*-Carboxyphenylsulphonyl-*p*-tolylsulphonylbenzylmethane, and its salts, 1508.
$C_{22}H_{20}O_{12}N_2$ Nitrobenzyl diacetyltartrates, 765.
$C_{22}H_{22}O_2N_2$ *m*-Hydroxydiphenyldimethylamine phenylurethane, 1097.
$C_{22}H_{23}O_4N$ Protosinomenine, and its picrolonate, 280.
$C_{22}H_{24}NBr$ Benzhydrylbenzyldimethylammonium bromide, 74.
$C_{22}H_{27}O_2Cl$ (−)Menthyl *dl*-α-naphthylchloroacetate, 36.
$C_{22}H_{29}O_4N$ *dl*-Homolaudanosoline, synthesis and dehydrogenation of, 1583.
$C_{22}H_{35}O_4N$ Atisine, and its perchlorate, 740.

22 IV

$C_{22}H_{15}O_4N_4Cl$ *m*-Chlorophenyl β-naphthyl ketone 2:4-dinitrophenylhydrazone, 447.
$C_{22}H_{16}ONBr$ Bromo-1-acetyl-2:3-diphenylindoles, 959.
$C_{22}H_{16}O_5NCl$ 4′-Amino-3:7-dihydroxy-5-benzoyloxyflavylium chloride, 28.
$C_{22}H_{18}O_6N_3As$ Fluorenone-7-glycinephenylureide-2-arsonic acid, and its sodium salts, 1456.
$C_{22}H_{18}O_9N_6Cl_6$ Bis-(βββ-trichloro-α-*N*′-acetyl-*N*′-nitrophenylcarbamidoethyl) ether, 32.
$C_{22}H_{28}O_4NI$ 2:3:11:12-Tetramethoxy-6:7:15:16-tetrahydro-5:18:9:14-dibenzpyridocoline methiodide, 1585.

C_{23} Group.

$C_{23}H_{16}$ 4-Methyl-1:2:5:6-dibenzanthracene, 1596.

23 II

$C_{23}H_{16}O_2$ 1-α-Naphthoyl-6-methyl-2-naphthaldehyde, 1596.
3-Phenyl-4-styrylcoumarin, 617.
$C_{23}H_{18}O$ 1-Naphthoyl-2:3-dimethylnaphthalenes, 1596.
$C_{23}H_{18}O_6$ 4-*O*-Benzoyl-2-*O*-anisoleresacetophenone, 1385.
$C_{23}H_{18}O_7$ 3:4″-Dimethoxy-*pp*-tribenzaldehyde, 141.
$C_{23}H_{18}O_8$ 4:7′-Diacetoxy-5:6-dimethoxynaphtha(1:2:4′:3′)coumarin, 1471.
3:4″-Dimethoxy-*pp*-tribenzoic acid, 142.

$C_{23}H_{16}O_{10}$ Tetra-acetoxyflavone, 1075.
$C_{23}H_{20}O_{10}$ 5:7:4′-Triacetoxy-3′:5′-dimethoxyflavone, 943.
$C_{23}H_{22}O_6$ Rotenone, synthesis of, 1163.
$C_{23}H_{24}O_6$ Dehydrodihydrorotenonic acid, 1165.
$C_{23}H_{26}O_6$ Tetrahydroderrisic acid, 1165.
$C_{23}H_{28}O_{13}$ Methyl 4-methoxysalicylate *O*-tetra-acetyl-β-glucoside, 1619.

23 III

$C_{23}H_{16}O_3Br_2$ 3-Phenyl-4-styrylcoumarin dibromide, 617.
$C_{23}H_{17}O_7N_3$ 1:2-*cyclo*Pentenophenanthrene, 1087.
$C_{23}H_{17}O_5Cl$ Dimethoxy-*pp*-tribenzoyl chloride, 142.
$C_{23}H_{19}O_5N_5$ 1-Keto-3-(4′-nitrobenzeneazophenyl)-2-methyltetrahydrophthalazine-4-acetic acid, 1070.
$C_{23}H_{20}O_3N_4$ 1-Keto-3(benzeneazophenyl)-2-methyltetrahydrophthalazine-4-acetic acid, 1070.
$C_{23}H_{21}ON_3$ 5-Dimethylamino-8-methoxy-2:3-diphenylquinoxaline, 826.
$C_{23}H_{26}O_4N_2$ Brucine, 486.
$C_{23}H_{26}NI$ ααβ-Triphenylethyltrimethylammonium iodide, 74.
$C_{23}H_{30}O_{10}S_2$ 2:3-Di-*p*-toluenesulphonyl 4:6-dimethyl α-methylaltroside, 1080.
2:3-Di-*p*-toluenesulphonyl 4:6-dimethyl α-methylglucoside, 1080.
$C_{23}H_{32}O_4N_2$ Yohimbine, 614.
$C_{23}H_{37}O_2Cl$ Chloro*allo*norcholanic acids, 1412.

23 IV

$C_{23}H_{16}O_5NCl$ 3′-Nitro-3:7-dihydroxy-5-benzoyloxy-4′-methoxyflavylium chloride, 27.
$C_{23}H_{18}O_3NBr$ Ethyl bromo-2:3-diphenylindole-1-carboxylate, 959.
$C_{23}H_{19}O_3ClS$ 7-(5-Chloro-2-methoxyphenylthio)-7′-acetoxystilbene, 1529.
$C_{23}H_{21}NClS_2$ 2:2′-Dimethylthiotricarbocyanine chloride, 191.
$C_{23}H_{21}N_2ISe_2$ 2:2-Dimethylselenotricarbocyanine iodide, 192.
$C_{23}H_{25}NBrAs$ 10-Benzyl-2-methyl-10-*n*-propyl-5:10-dihydrophenarsazonium bromide, 1636.
$C_{23}H_{26}ONAs$ 10-Benzyl-2-methyl-10-*n*-propyl-5:10-dihydrophenarsazonium hydroxide, salts of, 1636.

C_{24} Group.

$C_{24}H_{14}$ 2′:3′-Naphtha-1:2-pyrene, 403.

24 II

$C_{24}H_{12}O_6$ 1:2:5:6-Dibenzanthraquinone-4:8-dicarboxylic acid, 1597.
$C_{24}H_{14}O_3$ 1-Pyrenoyl-*o*-benzoic acid, 403.
$C_{24}H_{14}O_3$ 1-*o*-Carboxybenzylpyrene, 403.
$C_{24}H_{16}O_4$ 3-Phenyl-4-(3′:4′-methylenedioxystyryl)coumarin, 617.
$C_{24}H_{16}N_2$ 1:1′-Dicarbazyl, 1523.
3:9′-Dicarbazyl, 1525.
$C_{24}H_{16}N_4$ 9-*p*-1″:2″:3″-Benztriazolylphenylcarbazole, 1524.
$C_{24}H_{16}N_6$ 2:2′-Di-1″:2″:3″-benztriazolyldiphenyl, 1522.
$C_{24}H_{18}O_3$ 3-Phenyl-4-(4′-methoxystyryl)coumarin, 617.
$C_{24}H_{18}O_7$ ω-Acetoxy-2:4-dibenzoyloxyacetophenone, 372.
$C_{24}H_{19}O_3$ 9-*p*-(*o*-Aminophenylamino)phenylcarbazole, 1524.
$C_{24}H_{20}O_7$ ω:4-Dianisoylresacetophenone, 1386.
5:7-Dihydroxy-3′:5′-dimethoxy-4′-benzyloxyflavone, 942.
Resacetophenone dianisate, 1385.
$C_{24}H_{20}Si$ Tetraphenylsilicane, preparation of, 1043.
$C_{24}H_{22}N_4$ 2:2′-Di-*o*-aminophenylaminodiphenyl, 1522.
$C_{24}H_{26}O_4$ α-Phenylcrotyl succinate, 1498.
$C_{24}H_{30}O_6$ Ethyl βγ-dianisyladipate-a, 609.
$C_{24}H_{30}O_8$ Ethyl ββ′-dihydroxy-ββ′-dianisyladipate, 828.
Methyl tetrahydroderrisate, 1165.
$C_{24}H_{32}N_2$ *trans*-Hexahydrohydrindylidene-2-*trans*-hexahydrohydrindone phenylhydrazone, 1479.

24 III

$C_{24}H_{17}O_3N_3$ 9-*p*-(*o*-Nitrophenylamino)phenylcarbazole, 1524.
$C_{24}H_{16}O_4N_4$ 2:2′-Di-*o*-nitrophenylaminodiphenyl, 1521.
$C_{24}H_{24}O_6S_2$ *p*-Carbethoxyphenylsulphonyl-*p*-tolylsulphonylbenzylmethane, 1508.
$C_{24}H_{25}O_5N_2$ Substance, from auto-condensation of aminoveratroylpropionic acid, 1469.
$C_{24}H_{27}O_{11}N$ Penta-acetylindican, 30.
$C_{24}H_{30}O_4N_4$ *trans*-Hexahydrohydrindylidene-2-*trans*-hexahydrohydrindone 2:4-dinitrophenylhydrazone, 1479.
$C_{24}H_{31}O_2N_3$ *trans*-Hexahydrohydrindylidene-2-*trans*-hexahydrohydrindone *p*-nitrophenylhydrazone, 1479.
$C_{24}H_{32}OSi$ *cyclo*Hexyloxydi*cyclo*hexylphenylsilicane, 1042.
$C_{24}H_{39}O_2Cl$ Methyl chloro*allo*norcholanates, 1412.

24 IV

$C_{24}H_{24}O_8N_4Cl_4$ Bis-(βββ-trichloro-α-*N*′-acetyl-*N*′-tolylcarbamidoethyl) ethers, 31.

24 V

$C_{24}H_{18}ONBrAs$ 10-Phenacyl-2-methyl-10-*n*-propyl-5:10-dihydrophenarsazonium bromide, 1636.

C_{25} Group.

$C_{25}H_{16}O_2$ Diphenyl-$\beta\alpha$-naphthapyrones, 1462.
$C_{25}H_{20}O_4$ 7:4′-Dimethoxy-2-styryl*iso*flavone, 275.
$C_{25}H_{20}O_{12}$ Penta-acetoxyflavone, 942.
$C_{25}H_{22}O_9$ Tetramethoxy-*pp*-tribenzaldehyde, 141.
$C_{25}H_{22}O_{10}$ Tetramethoxy-*pp*-tribenzoic acid, 141.
$C_{25}H_{26}O_7$ *O*-Acetyldehydrodihydrorotenonic acid, 1165.
$C_{25}H_{48}O_5$ Batyl alcohol, constitution of, 164, 165.

25 III

$C_{25}H_{21}O_6Cl$ Tetramethoxy-*pp*-tribenzoyl chloride, 141.

25 IV

$C_{25}H_{25}N_2IS_2$ 2:2′-Diethylthiotricarbocyanine iodide, 191.
$C_{25}H_{25}N_2ISe_2$ 2:2-Diethylselenotricarbocyanine iodide, 192.

C_{26} Group.

$C_{26}H_{12}S_3$ ω-Phenylthioacetophenone phenylmercaptol, 1529.
$C_{26}H_{17}N$ Fluorenylidene-9-fluorenylamine, 1500.
$C_{26}H_{16}O_4$ 7-Cinnamoyloxy-2-styrylchromone, 1388.
3:3′-Diphenyl-4:4′-dimethyldicoumarin, 616.
$C_{26}H_{20}O_6$ 7:8-Dimethoxy-3-phenyl-4-(3′:4′-methylenedioxystyryl)coumarin, 617.
$C_{26}H_{21}N$ Benzhydrylidenebenzhydrylamine, 1502.
$C_{26}H_{22}O_5$ 7:8-Dimethoxy-3-phenyl-4(4′-methoxystyryl)coumarin, 617.
$C_{26}H_{24}O_9$ ω:4-Diveratroylresacetophenone, 1387.
Resacetophenone diveratrate, 1387.
$C_{26}H_{28}O_7$ Hexamethoxy-3:3-diphenylcoumaran, 375.
$C_{26}H_{28}O_{14}$ Alizarin β-gentiobioside, 1168.
$C_{26}H_{36}N_2$ *trans*-Octahydronaphthyl-2-*trans*-β-decalone phenylhydrazone, 1480.

26 III

$C_{26}H_{16}ON_2$ 9-Acetyl-3:9′-dicarbazyl, 1525.
$C_{26}H_{21}O_3N_3$ 9-*p*-(*o*-Acetamidophenylamino)phenylcarbazole, 1524.
$C_{26}H_{29}O_4N$ 6-Hydroxy-7-methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-2-methyl-1:2:3:4-tetrahydro*iso*-quinoline, 281.
$C_{26}H_{30}O_{11}S$ 2-*p*-Toluenesulphonyl 3:4:6-triacetyl β-benzylglucoside, 225.
$C_{26}H_{34}O_4N_4$ *trans*-Octahydronaphthyl-2-*trans*-β-decalone 2:4-dinitrophenylhydrazone, 1480.
$C_{26}H_{35}O_3N_3$ *trans*-Octahydronaphthyl-2-*trans*-β-decalone *p*-nitrophenylhydrazone, 1480.
$C_{26}H_{44}O_5N_4$ Glycollaldehyde octadecyl ether 2:4-dinitrophenylhydrazone, 166.

26 IV

$C_{26}H_{28}O_4NCl$ 6-Hydroxy-7-methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-2-methyl*iso*quinolinium chloride, 281.

C_{27} Group.

$C_{27}H_{18}O_2$ 3:3′-Dimethylenedi-β-naphtha*spiro*pyran, 434.
3-Phenyl-4-styryl-1:2-*a*-naphthapyrone, 617.
$C_{27}H_{25}N$ Benzhydryldibenzylamine, and its salts, 75.
$C_{27}H_{30}O_{16}$ Substance, from stems of tomatoes, 1528.
$C_{27}H_{46}O$ Cholesterol, structure of, 632.

27 III

$C_{27}H_{23}O_5N$ 6:7-Dimethoxy-3-benzoyl-2-phenylquinoline-4-propionic acid, 1089.

27 IV

$C_{27}H_{15}ONBr$ Bromo-1-benzoyl-2:3-diphenylindole, 959.

C_{28} Group.

$C_{28}H_{14}O_8$ 3:3′:4:4′-Tetrahydroxy-1:1′-dianthraquinonyl, 1517.
$C_{28}H_{16}O_3$ 2′:3′-Naphtha-1:2-pyrene-1′:4′-*endo*-$\alpha\beta$-succinic anhydride, 404.
$C_{28}H_{16}N_2$ 1:2:5:6-Dibenz-3:4-anthraquinoneazine, 1596.
$C_{28}H_{18}O_4$ 3-Phenyl-4-(3′:4′-methylenedioxystyryl)-1:2-*a*-naphthapyrone, 617.
$C_{28}H_{20}O_2$ 4-Phenyl-3′-methylbenzo-β-naphtha*spiro*pyran, 433.
4′-Phenyl-3′-methylbenzo-*a*-naphtha*spiro*pyran, 434.
$C_{28}H_{20}O_3$ 3-Phenyl-4-(4′-methoxystyryl)-1:2-*a*-naphthapyrone, 617.
$C_{28}H_{32}O_6$ 6-Triphenylmethyl-2:3-dimethyl *a*-methylglucoside, 738.
$C_{28}H_{38}O_{10}$ *O*-Heptamethyl phloridzin, 1171.
$C_{28}H_{44}O$ Ergosterol, structure of, 633.
$C_{28}H_{44}O_3$ Ergostadienedionol, 305.
$C_{28}H_{46}O_2$ Dihydroergosterol oxide, 389.

28 III

$C_{28}H_{22}O_6N_4$ *NN*-Diacetyl-2:2′-di-*o*-nitrophenylaminodiphenyl, 1521.
$C_{28}H_{24}O_{12}N_2$ 2:3-Di-*p*-nitrobenzoyl 4:6-benzylidene α-methylglucoside, 1079.
$C_{28}H_{30}O_4N_2$ 4″-Dimethylamino-4′-diethylamino-2′-acetoxydiphenylphthalide, 1268.
$C_{28}H_{45}O_2N$ Ergostadienedionol oxime, 305.

28 IV

$C_{28}H_{18}O_4N_4S_2$ Bis-2-*o*-nitrophenylaminophenyl disulphide, 1493.
$C_{28}H_{22}O_2Cl_2S_2$ 7:7′-Bis-(5-chloro-2-methoxyphenylthio)stilbene, 1529.
$C_{28}H_{22}O_6N_4S_2$ 2:2′-Di-*o*-nitrobenzamido-5:5′-ditolyl disulphide, 297.
$C_{28}H_{26}O_2NAs$ 10-Phenacyl-10-benzyl-2-methyl-5:10-dihydrophenarsazonium hydroxide, and its camphorsulphonate, 1636.

28 V

$C_{28}H_{25}ONBrAs$ 10-Phenacyl-10-benzyl-2-methyl-5:10-dihydrophenarsazonium bromide, 1636.
$C_{28}H_{25}ONIAs$ 10-Phenacyl-10-benzyl-2-methyl-5:10-dihydrophenarsazonium iodide, 1636.

C_{29} Group.

$C_{29}H_{16}O_5$ 7-Benzoyloxy-3-benzoylflavone, 1388.
$C_{29}H_{20}O_7$ Gallacetophenone tribenzoate, 1387.
ω:3:4-Tribenzoylgallacetophenone, 1387.
ω:2:4-Tribenzoyloxyacetophenone, 372.
$C_{29}H_{22}O_3$ 3:3′-(β-Methyltrimethylene)di-β-naphtha*spiro*pyran, 434.
3:3′-Tetramethylenedi-β-naphtha*spiro*pyran, 434.
$C_{29}H_{22}O_5$ 7-Methoxy-4-phenylmethylbenzo-β-naphtha*spiro*pyrans, 432.
$C_{29}H_{30}O_{10}$ Methyl *O*-tetramethylgyrophorate, 495.
$C_{29}H_{48}O$ Stigmasterol, structure of, 635.
$C_{29}H_{48}O_2$ Methoxyergostadienediol, 305.

29 III

$C_{29}H_{29}N_2I$ 1:1′-Diethyl-2:2′-tricarbocyanine iodide, 193.
$C_{29}H_{33}N_2I$ Hexamethylindotricarbocyanine iodide, 193.
$C_{29}H_{35}O_2N_2$ 4:4′-Bisdiethylamino-2:2′-dimethoxytriphenylmethane, 1270.

29 IV

$C_{29}H_{20}ONBr$ Bromo-1-cinnamoyl-2:3-diphenylindole, 959.

C_{30} Group.

$C_{30}H_{32}$ Dehydrocadalene, dimeride of, 24.
$C_{30}H_{50}$ β-Amyrene, 1346.

30 II

$C_{30}H_{18}O_4$ 3:9-Dihydroxy-2:8-dimethyl-5:6:11:12-dibenzperylene-4:10-quinone, 1519.
4:4′-Dihydroxy-3:3′-dimethylhelianthrone, 1519.
$C_{30}H_{18}O_6$ 4:4′-Dihydroxy-3:3′-dimethoxyhelianthrone, 1517.
$C_{30}H_{18}O_8$ 4:4′-Dihydroxy-3:3′-dimethoxy-1:1′-dianthraquinonyl, 1517.
$C_{30}H_{34}O_7$ 4-Acetyl-6-triphenylmethyl-2:3-dimethyl α-methylglucoside, 738.
$C_{30}H_{46}O_2$ Ergosterol-B_3, 390.
$C_{30}H_{48}O_3$ Dihydroergosterol oxide acetate, 389.
$C_{30}H_{50}O_2$ Oxy-β-amyrin, 1346.

30 III

$C_{30}H_{18}O_4N_2$ Höchst Yellow, degradation of, 1000.
$C_{30}H_{34}O_4N_2$ 4′:4″-Bisdiethylamino-2′-acetoxydiphenylphthalide, 1268.
$C_{30}H_{46}O_2N_2$ Tetramethylpiperazine-*d*-methylenecamphor, 144.

C_{31} Group.

$C_{31}H_{20}O_2$ 4-Phenyl-αβ-dinaphtha*spiro*pyran, 433.
$C_{31}H_{50}O_2$ β-Amyrin formate, 1346.

31 III

$C_{31}H_{33}N_2I$ 6:6′-Dimethyl-1:1′-diethyl-2:2′-tricarbocyanine iodide, 193.
$C_{31}H_{36}O_5N_2$ 4′:4″-Bisdiethylamino-2′-acetoxy-2″-methoxydiphenylphthalide, 1268.

31 IV

$C_{31}H_{25}N_2ClS_2$ 2:2′-Dimethyldibenzthiotricarbocyanine chlorides, 192.
$C_{31}H_{35}O_{13}NS_2$ 2-*p*-Toluenesulphonyl 3:4:6-triacetylglucosidopyridinium *p*-toluenesulphonate, 225.

C_{32} Group.

$C_{32}H_{22}O_2$ 4-Phenylmethyl-αβ-dinaphtha*spiro*pyrans, 433.
$C_{32}H_{22}O_6$ Tetramethoxy-5:6:11:12-dibenzperylene-4:10-quinone, 1519.
3:3′:4:4′-Tetramethoxyhelianthrone, 1518.

$C_{32}H_{38}O_{14}$ *O*-Tetra-acetyl trimethylphloridzin, 1172.
$C_{32}H_{40}O_{19}$ Primeverin hexa-acetate, 1620.
$C_{32}H_{52}O_2$ β-Amyrin *iso*acetate, 1346.
$C_{32}H_{52}O_3$ Oxy-β-amyrin acetate, 1346.
$C_{32}H_{54}O_5$ Ergostanetriol diacetate, 305.

32 III

$C_{32}H_{24}O_{12}N_2$ Nitrobenzyl dibenzoyltartrates, 765.
$C_{32}H_{32}O_4N_2$ 4′-Diethylamino-2′-acetoxyphenyl-4″-dimethylamino-α-naphthylphthalide, 1268.
$C_{32}H_{38}O_5N_2$ 4′:4″-Bisdiethylamino-2′-acetoxy-2″-ethoxydiphenylphthalide, 1268.

C_{33} Group.

$C_{33}H_{24}O_2$ 4-Phenyl-3:3′-dimethyl-αβ-dinaphtha*spiro*pyran, 434.
$C_{33}H_{28}O_{12}$ Pentamethoxy-*ppp*-tetrabenzaldehyde, 141.
$C_{33}H_{28}O_{13}$ Pentamethoxy-*ppp*-tetrabenzoic acid, 141.

33 III

$C_{33}H_{35}O_4N$ 6-Benzyloxy-7-methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-3:4-dihydro*iso*quinoline, 280.
6-Benzyloxy-7-methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-2-methyl-1:2:3:4-tetrahydro*iso*quinoline, 281.

33 IV

$C_{33}H_{29}N_2IS_2$ 2:2′-Diethyl-3:4:3′:4′-dibenzthiotricarbocyanine iodide, 192.
2:2′-Diethyl-5:6:5′:6′-dibenzthiotricarbocyanine iodide, 191.
$C_{33}H_{34}O_4NI$ 6-Benzyloxy-7-methoxy-1-(3′-benzyloxy-4′-methoxybenzyl)-3:4-dihydro*iso*quinoline methiodide, 280.

C_{34} Group.

$C_{34}H_{18}N_4$ 3:4:5:6-Dibenzphenanthra-1:2:7:8-diquinonediazine, 1597.
$C_{34}H_{22}O_6$ 4:4′-Diacetoxy-3:3′-dimethylhelianthrone, 1520.
$C_{34}H_{22}O_8$ 4:4′-Diacetoxy-3:3′-dimethoxyhelianthrone, 1517.
$C_{34}H_{34}O_9$ Methyl 4-methoxysalicylate 6-*O*-triphenylmethyl-β-glucoside, 1619.
$C_{34}H_{52}O_5$ Ergostenetriol-*B* diacetate, 305.

C_{35} Group.

$C_{35}H_{36}O_7$ 4-Benzoyl-6-triphenylmethyl-2:3-dimethyl α-methylglucoside, 738.
$C_{35}H_{48}O_4$ Ergostadienediolone benzoate, 305.
$C_{35}H_{50}O_3$ Dihydroergosterol oxide benzoate, 389.

35 III

$C_{35}H_{44}O_6N_2$ Dehydroergosteryl 3:5-dinitrobenzoate, 389.
$C_{35}H_{46}O_6N_2$ Dihydroergosteryl 3:5-dinitrobenzoate, 389.
$C_{35}H_{46}O_7N_2$ Dihydroergosterol oxide 3:5-dinitrobenzoate, 389.

C_{36} Group.

$C_{36}H_{20}O_{10}$ 3:3′:4:4′-Tetra-acetoxynaphthadianthrone, 1518.
$C_{36}H_{22}O_8$ *O*-Tribenzoylgalangin, 369.
$C_{36}H_{22}O_{10}$ 3:3′:4:4′-Tetra-acetoxyhelianthrone, 1518.
$C_{36}H_{24}O_8$ 7′-Methoxy-4-(7″-methoxy-4″-phenylcoumarin-3″-acetoxy)naphtha(1:2:4′:3′)coumarin, 1471.
$C_{36}H_{24}O_9$ ω:2:4:6-Tetrabenzoyloxyacetophenone, 368.
$C_{36}H_{26}O_{10}$ Resorcinol bis-(4′-methoxy-*p*-dibenzoyl)ether, 141.
$C_{36}H_{52}O_4$ Methoxyergostadienediol benzoate, 305.

36 IV

$C_{36}H_{34}O_6N_2Cu$ Diamminocupric trisdiphenol, 1230.

C_{38} Group.

$C_{38}H_{30}O_{12}$ Quinol bis-(3′:4′-dimethoxy-*p*-dibenzoyl)ether, 141.
$C_{38}H_{32}O_2$ 3:4-Diphenyl-5:5-dimethyl-Δ^3-*cyclo*pentenonylidene-3:4-diphenyl-5:5-dimethyl-Δ^3-*cyclo*pentenone, 731.

38 III

$C_{38}H_{32}O_5P_2$ Triphenylmethylpyrophosphonic acid, and its silver salt, 785.

C_{39} Group.

$C_{39}H_{40}O_{20}$ Alizarin hepta-acetyl β-primeveroside, 1169.

C_{40} Group.

$C_{40}H_{24}H_{14}$ Quinol bis-(3:3′:4′-trimethoxy-*p*-dibenzoyl) ether, 141.
$C_{40}H_{40}O_{12}$ Methyl 4-methoxysalicylate 6-*O*-triphenyl-2:3:4-*O*-triacetyl-β-glucoside, 1619.

40 III

$C_{40}H_{38}O_5P_2$ Methyl triphenylmethylpyrophosphonate, 785.

40 IV

$C_{40}H_{35}O_4ClP$ Ethyl triphenylmethylchloropyrophosphonate, 781.

C_{41} Group.

$C_{41}H_{44}O_{21}$ 1-*O*-Methylalizarin *O*-hepta-acetyl-β-gentiobioside, 1168.

41 III

$C_{41}H_{52}O_7N_4$ Ergostadienediolone benzoate 2:4-dinitrophenylhydrazone, 305.

C_{42} Group.

$C_{42}H_{32}$ 7-*iso*Propenyl-1:2-benzanthracene, 1410.

42 III

$C_{42}H_{40}O_5P_2$ Ethyl triphenylmethylpyrophosphonates, 784.

C_{44} Group.

$C_{44}H_{26}O_{10}$ 4:4′-Dibenzoyloxy-3:3′-dimethoxy-1:1′-dianthraquinonyl, 1517.

C_{52} Group.

$C_{52}H_{38}O_{16}$ Quinol bis-(3:4″-dimethoxy-*pp*-tribenzoyl) ether, 142.

C_{82} Group.

$C_{82}H_{66}O_{31}$ Tris-(3:3′:3″:4″-tetramethoxy-*pp*-tribenzoyl)-2:3:4-trihydroxybenzaldehyde, 142.

ERRATA.

Vol. 1930.

Page	Line	
12	12*	*for* "(200 c.c.)" *read* "(20 c.c.)."
13	15	*for* "m.p. 224°" *read* "m. p. 204°."
1748	formula II	*for* "$NH_4{\cdot}C_2H_4{\cdot}S$" *read* "$NH_2{\cdot}C_2H_4{\cdot}S$."
1754	5*	*for* "$a + 47°$" *read* "$a + 0{\cdot}47°$."

Vol. 1933.

Page	Line	
11	32	in the equation insert "$E_0 +$" after "$=$".
320	22, 25	*for* "Freyher" *read* "Reyher."
323	2	*for* "their equivalent conductivities" *read* "the equivalent conductivities of their neutral sodium salts."

* from bottom.